

ANNUAL REPORT

2018-19



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17	Prof. Anita Patra, Registrar, CUTM	Ex Officio Secretary

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APSSDC- Andhra Pradesh State Skill Development Corporation

APEDA- Agricultural and Processed Food Products Export Development Authority

BAIF- Bharatiya Agro Industries Foundation

BCKV- Bidhan Chandra Krishi Viswavidyalaya

BEML- Bharat Earth Movers Ltd

BITS- Birla Institute of Technology and Science

CCD- Café Coffee Day

CTTC- Central Tool room & Training Centre

CAD/CAM- Computer Aided Design/Manufacturing

CUCREE- Centurion University Centre for Renewable Energy & Environment

CSR- Corporate Social Responsibility

CUTM- Centurion University of Technology & Management

CIPET- Central Institute of Plastics Engineering & Technology

DDUGKY- Deen Dayal Upadhyaya Grameen Kaushalya Yojana

FDP- Faculty Development Programme

GTIDS- Gram Tarang Inclusive Development Services

GTETS- Gram Tarang Employability Training Services

GTF- Gram Tarang Foods

HPCL- Hindustan Petroleum Corporation Ltd

HAL- Hindustan Aeronautics Ltd

IFFCO- Indian Farmers Fertiliser Cooperative

IGKV- Indira Gandhi Krishi Vishwavidyalaya

IKS- Institute of Knowledge Society

IJCR- International Journal of Current Research

IEEE- Institute of Electrical and Electronics Engineer

IOSR- International Organization of Scientific Research

IIW- International Institute of Welding

ICMSEA- International Conference on Materials Science and Engineering Application

LMSC- Last Mile Supply Company

MoU- Memorandum of Understanding

MSSSoA- M.S. Swaminathan School of Agriculture

MCSP- Maternal and Child Survival Program

NALCO- National Aluminium Corporation Ltd

NBFC- Non Banking Finance Company

NSIC- National Small Industries Corporation

NCC- National Cadet Corp

NSDC- National Skill Development Corporation

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

It gives me immense pleasure to present the Annual Report of Centurion University of Technology and Management (CUTM), Odisha for the year from April 2018 to March 2019.

The University offered 2 Certificate, 11 diploma, 39 under-graduate and 47 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 located in four constituent campuses across Odisha, at Paralakhemundi, Bhubaneswar, Rayagada and Bolangir with a student strength of 9521 by end of 2018.

During the year, the University consolidated its on-going Choice Based Credit System (CBCS) for students in Engineering and Applied Science disciplines and expanded to Diploma in engineering program. Learning records for students and teaching-learning records for faculty are maintained for better learning and its traceability. Student specific action plans for timely graduation and realization of career objective are used as tools for mentoring by the faculty. Its innovation in assessment through Examinations on Demand (EOD) helps students to clear backlogs at their pace. Systematic use of ICT helps in timely execution of assessment process while maintaining high quality.

Considering University's focus on action research that has implications for the socio-economically underprivileged community, it has created Centers of Excellence in Renewable Energy and Environment, Material Science, Organic Agriculture and Value Addition, and Indigenous Knowledge System. These Centers and social enterprises that the University has set up helped in solving different real-life problems faced by the community through development of skilled manpower and appropriate technologies. The research effort of the faculty has also resulted in organization of numerous international and national conferences and seminars, publication of papers and patents.

The University has become a known destination for students and faculty from many foreign Universities and institutions for undertaking teaching, training and research programs. It has been our endeavour to create an enabling environment for more such cooperations in future.

The severe cyclonic Storm 'Titli', with heavy rain fall and high wind speed, devastated the Paralakhemundi Campus and the adjoining areas in Gajapati district on 11th October 2018. The campus lost large number of matured fruit bearing trees, agriculture research station and experimental field, nursery, poly houses, dairy farms, aquariums, tribal museum, electricity distribution network and boundary wall. The faculty and staff worked in war-footing and took the responsibility of coping with the natural disaster and supporting community, civil society and government in the rehabilitation effort. The University hosted government and private agencies and individuals by providing boarding, lodging, logistics and human resources and used its students, faculty, staff and network of partners to support relief activities in the district. The Centurion spirit of 'live and let others live' was in true display.

I thank the entire University Community for the support and cooperation. We are confident that the coming years will witness more progress and all-round prosperity.

Dr. Haribandhu Panda

Vice-Chancellor

1. Overview

Centurion University of Technology and Management started with the belief that higher education must lead to holistic development of people through meaningful employment and entrepreneurship. It owes its existence to inclusive, appropriate and relevant education and academic deliveries, which use the tripod of *hands on knowledge, practice oriented learning and experience linked pedagogy*. Gradually, the university has moved towards development of skilled graduates who are sought in the market, society and government. 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. To ensure that the graduates get gainful employment, the University started imparting skill integrated higher education in all its schools. The university is founded in the model of building skill in all levels of education. The DNA of Centurion University is to award competency linked Degrees by converging *teaching – training – production*.

To bridge the gap between industry and academia, CUTM works closely with industries in teaching, training, consulting and research. Some of the industry partners include Rural Electrification Corporation (REC), Power Grid Corporation of India Ltd (PGCIL), Odisha Power Transmission Corporation Ltd. (OPTCL), SELCO, Schneider Electric; Ashok Leyland, Volvo, Eicher, Hyundai, Yamaha, Bharat Earth Movers Ltd. (BEML); National Aluminum Co. Ltd. (NALCO), Vedanta, Jindal, Utkal Alumina, Steel Authority of India Ltd. (SAIL), Hindustan Petroleum Corporation Ltd. (HPCL); Godrej and Boyce; CISCO, Mind tree; OBC, Canara Bank, Allahabad Bank, Union Bank, Central Bank of India, Axis Bank, SIDBI; Café Coffee Day (CCD), Gap Foundation, Odisha Police Housing Corporation (OPHWC), Australian Sports Commission, etc.

The University with its constituent campuses have area of 120 acres of land (Campus – I: 79.042 acres, Campus – II: 40.883 acres and rest at other locations) and 2.75 lakh square feet of built-up area. 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.

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 (SVET), School of Pharmacy and Life Sciences (SPLS), 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 2 certificates, 11 diploma, 39 under-graduate and 47 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 located in four constituent campuses across Odisha, at Paralakhemundi, Bhubaneswar, Rayagada and Bolangir with a student strength of 9521 as on November 2018. Over the last two years, Centurion University's admissions have grown by over 40%.

1.1 New Programmes/Courses:

- B.Tech. (Dairy Technology), B.Tech. (Aerospace), B.Tech. (Automobile), B.Sc. Hons. (Horticulture)
- Masters by Research, M.Tech. in Renewable Energy, M.Sc. in Environmental Science, M.Phil. (Botany), M.Phil. in (Zoology)
- M.Sc. Ag. In Soil Science, M.Sc. Ag. In Entomology
- PG Diploma in VLSI Design in collaboration with Tessolve Semiconductors, Diploma in Community Health Practices in Collaboration with Swasthya Swaraj, Diploma in Vocational.
- B.Pharma in Rayagada and Bolangir Campus.

The outcome of the combined and relentless effort of Placement Team resulted in 601 offers from 62 Companies in 2018-19. 42% of eligible engineering, 50% of eligible agriculture, 20% of eligible science and 100% of eligible management students were placed successfully. 35 students of the School of Agriculture qualified in Junior Research Fellowship in 2018.



2. Schools, Departments and Academic Programmes



2.1 M S Swaminathan School of Agriculture

2.1.1 Programmes Offered

- B.Sc. (Hons) in Agriculture Science
- B.Tech. in Agriculture Science
- M.Sc. in Agriculture Science

2.1.2 Department of Agronomy

Agronomy is one of the important branches of agriculture education and the Department was established in the year 2013 under M.S. Swaminathan School of Agriculture, Centurion University of Technology and Management. The Department is entrusted to laboratory work, research, extension and allied activities are mainly focused on thrust area like organic farming, integrated nutrient management, and integrated weed management varietal performance studies of different crops, intercropping system and also introduction of new crops rather than the teaching by the well-known teachers and staffs.

2.1.3 Department of Horticulture

The Department of Horticulture was established in 2013 with five different courses in B. Sc. (Ag.), 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 objective to establish the department was to initiate education and training in horticulture courses i.e., vocational training, star program for farmers etc., to conduct need based research for the development of horticulture in Odisha and to disseminate the technology for growing horticultural crops and post-harvest management of horticultural produce. The department possess a well-equipped laboratory for under-graduate students.

2.1.4 Department of Agricultural Extension

Agricultural extension is the application of scientific research and new knowledge to agricultural practices. 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.

2.1.5 Department of Entomology

The Department of Entomology is one of the eight departments established in 2013 under the umbrella of M. S. Swaminathan School of Agriculture, Centurion University of Technology and Management. The Department is entrusted to impart knowledge and give practical training on Entomology 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. Pathogens including bacteria, fungi, nematodes, viruses, viroid and other microbe's attack cause heavy economic loss. In this direction, the study of plant pathology and research findings in the field would be beneficial to the farmers in addressing major pest attacks on crops in the field. 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. It is aimed towards training the students in various disciplines of agriculture and educate the under-graduate students in the field of plant pathology and microbiology. 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 Architecture, Planning and Design

2.2.1 Programme Offered

- Bachelors in Architecture

2.2.2 Department

The School of Architecture, Planning and Design was started from 2014 – 2015 as per the guidelines of the Council of Architecture. The school aims at providing quality education in the field of Architecture to cater to the need of the hour in the country's path of progress. In the background of Odisha's development for the last few decades in general and the

phenomenal growth of Bhubaneswar from the second city of the state to a burgeoning capital city nearly touching 10 lakh population, it is imperative that the need for Architectural Institutions is on the rise. The motto of the school is to give the society young and qualified people who are not only conscientious architects but are also responsible decision makers who give utmost value to sustainability and inclusivity.

2.3 School of Engineering and Technology

2.3.1 Programmes Offered

B.Tech.

- Civil Engineering
- Mechanical Engineering
- Computer Science and Engineering
- Petro Chemical Engineering
- Electrical and Electronics Engineering
- Agriculture Engineering
- Electronics and Communication Engineering
- Dairy Technology

M.Tech.

- Civil Engineering
- Mechanical Engineering
- Computer Science and Engineering
- Electrical and Electronics Engineering
- Electronics and Communication Engineering

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 some of the most senior faculty members drawn from retired professors from Orissa and AP. It has also professors who have been Chief Engineers of the state. The pedagogy is a mix of theory and practice. Like all departments, Civil also has about 60% practical component in its curriculum.

The department offers courses at undergraduate level, graduate level (Structural Engineering, Hydraulics and Transportation Engineering). The main areas of research include 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. They design, build, operate and manage the plants for physical, thermal or chemical processing of materials to obtain consumable goods and products such as food and beverages, plastics, soaps and detergents, fertilisers, cement, pharmaceuticals and refined petroleum products. Petro-Chemical engineers apply modern knowledge of geology and physics for the assessment, exploration and production of hydrocarbons such as crude oils and natural gas. They produce

uninterrupted supply of oils used by chemical engineers to make various goods and also for energy generation.

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. The Department motivates the faculty and the students for research oriented programs to compete in the new industrial resurgence. Faculties organize and participate in different workshops, Faculty Development Programmes, Seminars and Conferences. Students of the department are encouraged and motivated to take up challenging projects. Summer training, industrial visit and projects are carefully planned for the students to remain updated with technological trend. The department is organizing and engaging the students in latest technological advancement programmes through IEEE JITM student branch. The Department is modern, with software based practical classes through ORCAD, MATLAB, CADENCE, HFSS platforms from the first year. The Department has its own library, along with the Central library to facilitate the students specializing in a particular stream.

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.

2.4 School of Applied Sciences

The School of Applied Sciences (SoAS) offers Bachelor of Science (B.Sc.) program for 3 years, Master of Science (M.Sc.) program for 2 years and M. Phil for 1 years.

2.4.1 Programmes Offered

2.4.1.1 B.Sc. (Hons) Program

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

2.4.1.2 M.Sc. Program

- Applied Chemistry
- Applied Mathematics
- Applied Physics
- Information Technology

2.5 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 carved a niche for itself in offering high quality Management education in eastern India. It differentiates itself from other Management Schools by offering industry oriented meaningful education with a humane face. 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 Masters' Program

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

2.5.1.2 Bachelors' Program

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

2.6 School of Media and 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 2018-19 Academic year 3744 students were admitted in the university. It includes 245 in Diploma Programmes, 1164 in Bachelors' Programmes, 524 in Masters' Programme & 59 in Doctoral Programmes. The details are indicated in Table 3.1.

Table 3.1: Admission Mix in Academic Year 2018-19

Note: M – Male, F – Female, BBS – Bhubaneswar, BLG – Bolangir, PKD – Paralakhemundi, RGD - Rayagada

Programme	Branch	Pkd Campus		BBS Campus		Total
		M	F	M	F	
B.Tech.	Computer Science & Engineering (CSE)	34	25	87	17	163
	Electronics & Communication Engineering	6	2	8	1	17
	Electrical Engineering	-	-	2	1	3
	Electrical & Electronics Engineering	3	-	9	1	13
	Mechanical Engineering	12	-	46	-	58
	Civil Engineering	5	1	15	-	21
	Mining	-	-	11	1	12
	Bio Technology					
	Computer Science Engineering – Cloud Technology & Information Security	-	-	15	4	19
	Agricultural Engineering	40	8	-	-	48
B.Sc. (Hons)	Agriculture	154	123	-	-	277
B.Sc. (Hons)	Horticulture	4	9	-	-	13
MBA	Business Administration	-	-	26	16	47
	Data Analytics	5	-	-	-	5
	Agri Business Management	3	1	-	-	4
	Development Management	4	1	-	-	5
BBA	Business Administration	15	12	26	13	66

	Retail & Hospitality					
	Financial Inclusion					
B.Com.		-	-	41	14	55
M.Tech.	Power System & Control Engineering	-	-	5	5	10
	Electronics & Communication Engineering	-	-	1	2	3
	Computer Science & Engineering	-	-	5	1	6
	Mechanical Engineering	-	-	12	1	13
	Structure	-	-	8	9	17
M.Sc.	Physics	2	3	29	27	61
	Chemistry	2	6	33	56	97
	Information Technology	-	-	7	2	9
	Mathematics	-	-	12	10	22
	Botany	-	-	17	58	75
	Zoology	-	-	35	115	150
B.Sc.	Optometry	5	5	24	25	59
	Information Technology	-	-	4	7	11
	Zoology	-	-	7	16	23
	Botany	-	-	-	6	6
	Information Technology- Cloud Technology & Information Security	-	-	22	13	35
	Physics	9	4	11	3	27
	Chemistry	8	4	5	6	23
	Mathematics	-	-	2	-	2
DIPLOMA	Automobile Engineering	-	-	11	-	11
	Computer Science & Engineering	-	-	26	6	32
	Civil Engineering	4	0	11	4	19
	Electrical Engineering	33	0	23	3	59

	Mechanical Engineering	28	0	44	0	72
	Mining Engineering	-	-	52	-	52
Ph.D.	Management & Humanities	4		4		8
	Engineering & Sciences	30		21		51
	Total	410	204	597	443	1779

Note: M – Male, F – Female, BBS – Bhubaneswar, BLG – Bolangir, PKD – Paralakhemundi, RGD – Rayagada

Course	Branch	RGD Campus		BLG Campus		Total
		Male	Female	Male	Female	
Integrated B.Sc., M.Sc. & BCA	B.Sc., M.Sc. & BCA	29	19	78	87	213
SoVET	Regular I.T.I students	216	5	40	12	273
	FITTER (DDUGKY)	398	138	-	-	536
	SMO (DDUGKY&PMKVY)	155	438	-	-	593
	BCBF (PMKVY)	-	-	320	30	350
	TOTAL	798	600	438	129	1965

Note: M – Male, F – Female, BBS – Bhubaneswar, BLG – Bolangir, PKD – Paralakhemundi, RGD - Rayagada

4. Placements

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 601 offers from 62 Companies in 2018-19. 42% of eligible engineering, 50% of eligible agriculture, 20% of eligible science and 100% of eligible management students were placed successfully. 53 students of the School of Agriculture qualified in Junior Research Fellowship in 2018.

Students placed in different organisations are presented in Table 4.1. 2 students started their own enterprises.

During the year 2018-19, 25 & 2 students respectively went for higher studies within India and outside India

Table 4.1: Students Placed in Different Organisations

Sl. No.	Name of the Company	No of Students Placed
1	Sadbhav Engineering Ltd.	6
2	Aditi Organic Cer Pvt. Ltd.	1
3	Aditya Birla Capital	5
4	Advanta Seeds	3
5	Aries Agro Ltd.	8
6	East West Seeds Pvt Ltd.	12
7	Ekutir Rural Management Services Pvt Ltd.	2
8	GTET	50
9	Harsha Trust	4
10	Heritage Food	14
11	Indian Agribusiness Systems	1
12	Nagarjuna Fertilizers & Chemicals Ltd	18
13	Oloam Agro India Pvt Ltd.	3
14	Sanara Organics	6
15	Sri Ram Bio-seeds	23
16	Sundaram Finance	2
17	Syngenta Foundation	2
18	TekWissen Software Pvt. Ltd.	7
19	Capital AIM	24
20	Helvoet	19
21	Thyrocare Technologies	5

22	Aditya Birla Ultra Tech Cement	1
23	Allsec Technologies	20
24	Appeal Group	5
25	Bi Pro	6
26	Biocrux	2
27	Booking jinni	7
28	Collabera Software	6
29	Cyber Infrastructure India Pvt Ltd	2
30	Dana India	15
31	Diversified Energy Solutions	1
32	Etech Global Solutions	6
33	Faurecia	47
34	International Automotive Components	15
35	Mindfire Solutions Ltd	5
36	Mindtree Ltd	1
37	Photon Infotech	3
38	Pratian Technologies	1
39	Sakrobotix	5
40	Silicon Techlab	4
41	Spaneous Software	2
42	TCS	1
43	Valued Epistemics	1
44	Vishya Group	25
45	Window Maker	1
46	Wipro Technologies	5
47	BYJUS	1
48	ICICI Bank	16
49	Just Dial Ltd	1
50	Patanjali Ayurved Limited	15
51	Pin Click	1
52	Propello	1
53	Swiggy	1

54	Aabsys IT	2
55	Ananda Group	10
56	Asahi India	3
57	Hitachi Automotive	12
58	Motherson Automotive	40
59	Nexteer Automotive	21
60	RSB Global	12
61	Sigma Electric	49
62	SKH Krishna Group	14
Total		601

6. Research, 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 the University undertook research projects of worth Rs. 4,94,80,847 crores. During the Year University filed 69 patents.

The School-wise publications of faculty and students are presented next. During the year, the faculty and students published 187 number of journal articles and 95 number of articles published in conferences.

6.1. List of Publications

Electrical and Electronics Engineering

Samal, M. & Sahoo, A (2018) “*Design of a Controller for MIMO System by using Approximate Model Matching (AMM) Method*”, **International Journal of Engineering and Management Research (IJEMR)**-Volume-8, Issue-6 ISSN (Online): 2250-0758 || ISSN (Print): 2394-6962.

Civil Engineering

Panda, P., Ghadai, M. & Narsimaham, M.L. (2018) “*Water quality index computations at selected locations: a case study of Brahmani river basin, Odisha, India*” **International Journal of Management, Technology and Engineering**, Volume-8, Issue-XVI

Panda, P. & Narsimaham, M.L. (2018) “*Avulsion as a landscape-forming event: A Case study of River Kosi using Space Technology and Geospatial Approach*” **International Journal of Management, Technology and Engineering**, Volume-8, Issue-XVI

Panda, P. & Narsimaham, M.L. (2018) “*Disease Control and Combat Mapping for Tribal Fortification Using GIS –A Case Study for Selected Tribal blocks of Rayagada District, Odisha*” **National Symposium on Advancements in Geospatial Technology for Societal Benefits**

Panda, P. & Narsimaham, M.L. (2018) “*Geomorphology of the Kosi Fan in Consequence to a Mega-Avulsion Aided by Space Inputs and Hydraulic Modelling*” **Journal of Remote Sensing & GIS**, April 2018, Volume 7, issue-2. IF-7.238

Panda, P. (2018) “*Hydro Geomorphological Characteristics and Delineation of Ground Water Potential Zone - A Case Study of Rushikulya and Bahuda Basin, Ganjam Odisha*” **International Journal of Advanced Remote Sensing and GIS**, Volume 7, Issue 1, pp. 2540-2550

Panda, P., Panda, P. & Narsimaham, M.L. (2018) “*Rainfall Data Analysis for Estimation of Rainfall Erosivity Factor*” **International Journal of Engineering, Science and Mathematics**, ISSN: 2320-0294 Impact Factor: 6.765

Electronics and Communication Engineering

Pine, S. (2018) “*Optimization of the Breakdown Voltage of Soi Ldmos Using TCAD*”, **International Journal of Engineering, Science and Mathematics**, Volume 8, Issue XII, Page 3294-3303, ISSN: 2249-7455

Pine, S. (2018) “*Controlling a Wheeled Robot through Field Programmable Gate Array*”, **International Journal of Engineering, Science and Mathematics** Vol. 6 Issue 8, ISSN: 2320-0294

Padhy, S.N. (2018) “*Controller Design for Bridgeless SEPIC PFC Rectifier Operating In Continuous Conduction Mode*”, **International Journal of Engineering, Science and Mathematics**, Volume 6, Issue XI, ISSN: 0973-7006

Padhy, S.N. (2018) “*Modelling and Simulation of Bridgeless SEPIC PFC Rectifier Operating in Continuous Conduction Mode*”, **International Journal of Engineering, Science and Mathematics** Vol. 6 Issue 8, ISSN: 2320-0294

N, Jeevaratnam (2018) “*Review of MEMs Piezoresistive paper based pressure sensor*”, **International Journal of Engineering, Science and Mathematics**, ISSN: 0973-7006

Patnaik, P. (2018) “*A Novel approach of Parameter Extraction of Distributed MEMS Transmission Line using Neural Network*”, **International Journal of Engineering, Science and Mathematics** Vol. 6 Issue 8, ISSN: 2320-0294

Padhi, B. (2018) “*GSM Based Temperature and Humidity measurement of SILO.*” **Far East Journal of Electronics and Communications**, ISSN: 0973-7006

Mechanical Engineering

Rao, P.G., Rao, P.S. and Krishna, G. (2018) “*Vibratory Assisted Welding System*” **Official Journal of the Patent Office, Chennai**, Issue No. 46/ Journal Page No. 72445, Application No: 201641029625.

Rao, P.G., Rao, P.S. and Krishna, G. (2018) “*A Smart Prediction Tool for Estimating Impact Strength of Welded Joints Prepared by Vibratory Welding Process*”.

- Rao, P.G., Rao, P.S. and Krishna, G. (2018) “*Development of a prediction tool for tensile strength of the welded joints prepared by vibratory welding process*”, **Materials Focus** Vol. 6, Issue 3, pp. 319–324, (Indexed by ESCI, Web of Science, Thomson Reuters).
- Rao, P.G., Rao, P.S., and Deepak, BBVL. (2018) “*GRNN-Immune Based Strategy for Estimating and Optimizing the Vibratory Assisted Welding Parameters to Produce Quality Welded Joints*”, **Engineering Journal**, Vol. 21, Issue 3, (ESCI and SCOPUS, Web of Science, Thomson Reuters).
- Musalaiah, G., Venkata, S., Rao, P.S. and Rao, P.G. (2018) “*Shear Strength Enhancement in Vibratory Lap Welded Joints*”, **International Journal of Mechanical Engineering and Technology**, Volume 8, Issue 1, pp. 160-168(Indexed by SCOPUS).
- Rao, P.S. (2018) “*A novel method for joining of Aluminum alloy AA6061 plates by friction stir welding using vertical milling machine*”, **International Research Journal of Engineering and Technology**, e-ISSN: 2395-0056 Volume: 04 Issue: 09
- Mohanty, R.C. (2018) “*Energy and Exergy Analysis of a Diesel Engine Fuelled with Diesel and Simarouba Biodiesel Blends*” **Journal of the Institution of Engineers (India): Series C**, Springer, 2018
- Mohanty, R.C. (2018) “*Exergy and Energy Analyses and Evaluate Drying Parameters to Develop a Statistical Model for a Solar Dryer in Fish Drying*” **International Journal for Research in Engineering Application & Management**
- Mohanty, R.C. (2018) “*An Experimental Statistical Model Developed in Fish Drying using Regression Analysis*” **International Journal of Mechanical Engineering & Technology**
- Mohanty, R.C. (2019) “*PCA Based Hybrid Taguchi Philosophy for Optimization of Multiple Responses in EDM*” **Indian Academy of Sciences & Springer**
- Mohanty, R.C. (2019) “*Fabrication and Optimization of Fish Drying*” **Journal of The Institution of Engineers (India) – Series A**, Springer, 2019
- Mohanty, A.M. (2018) “*Experimental Analysis and Parametric Optimization of 6065-Aluminium Alloy in Rotary Friction Welding*” **International Journal of Advanced Mechanical Engineering**
- Mohanty, A.M. (2018) “*Optimization of EDM Machining Parameters to Machine INCONEL – 825*” **International Journal of Engineering and Management Research**
- Mohanta, D.K. (2018) “*Experimental Analysis and Parametric Optimization of 6065-Aluminium Alloy in Rotary Friction Welding*” **International Journal of Advanced Mechanical Engineering**
- Mohanta, D.K. (2018) “*Effect of Heat Treatment in Low Carbon Steel*” **International Journal of Engineering and Management Research (IJEMR)**
- Mohanta, D.K. (2018) “*Experimental Study on Micro Drilling Process*” **International Journal of Engineering and Management Research (IJEMR)**
- Mishra, I. (2018) “*Simulation of a double cavity type solar trough collector*” **International Journal of Mechanical Engineering and Technology**

Panda, R.R. (2018) “*Fabrication and Characterization of Aluminum Based Silicon Carbide Composite*” **International Journal of Engineering and Management Research**

Panda, R.R. (2018) “*Optimization of EDM Machining Parameters to Machine INCONEL – 825*” **International Journal of Engineering and Management Research**

Panda, R.R. (2018) “*Effect of Heat Treatment in Low Carbon Steel*” **International Journal of Engineering and Management Research**

Panda, R.R. (2018) “*Experimental Study on Micro Drilling Process*” **International Journal of Engineering and Management Research**

Panda, R.R. (2018) “*Fabrication and Characterization of Aluminum Based Silicon Carbide Composite*” **International Journal of Engineering and Management Research**

Sethi, S.K. (2018) “*Performance Optimization in Turning of Aluminum 8019 Alloy*”, **International Journal of Engineering and Management Research**

Suresh, B.V., Musalaiah, G., Rao, P.S. and Rao, P.G. “*Influence of Vibratory Weld Conditioning on Hardness of Lap Welded Joints*”, **International Journal of Mechanical Engineering and Technology**, Volume 8, Issue 1, pp. 169-177(Indexed by SCOPUS).

Rao, M.V., Rao, P.S. and Babu, B.S. (2018), “*Vibration Effect on the Impact Strength of Al5052-H32 weldments*” ,Journal Mechanical Engineering research and Developments, Vol. 40, No. 1, pp. 311-316.(Indexed by SCOPUS).

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Rao, P.S. (2018) “*Drafting software as a practicing tool for engineering drawing based courses: Content planning to its evaluation in client–server environment*”, **International Journal of Mechanical Engineering Education** 0(0) 1–17

Rao, P.S. (2018) “*Regression analysis for estimating hardness and tensile strength of vibratory dissimilar welded joint*”, **International Journal of Management, Technology and Engineering**, ISSN: 2249-7455, vol. 8, 12, Dec 2018

Mallick, A. (2018) “*The Effect of functionalities MWCNT on Mechanical and electrical properties of PMMA Nanocomposites.*”, **Nano electronic Materials and Devices. Lecture Notes in Electrical Engineering**, vol. 466. Springer, Singapore

Patro, S. and Rao, P.S. (2018) “*A Concise Review on Optimization of Machining Process Variables in WEDM*”, **International Journal of Engineering Science and Technology**

Agriculture Engineering

Mishra, B.P. (2018) “*Prompt corrective action parameters identification using PCA Analysis for sustainable development in a Gandhian State, Odisha*”, **International Journal of Management, Technology and Engineering** (ISSN NO: 2249-7455)

Applied Sciences

Mishra, A. (2018) “*Effect of Electrification of Nano particles on Natural Convective Boundary Layer Flow and Heat Transfer of a Cu-Water Nano fluid*” pp.1254-1264

Mishra, A. (2018) “Modelling Boundary Layer Flow and Heat Transfer of a Particulate Suspension”, pp.417-433

Mishra, A. (2018) “Simulation of Aerodynamic Flow Parameters over a Simplified Sedan Car”, pp.1265-1274

Mishra, A. (2018) “Classification of Threats in Cloud Environment”, pp.13161327

Mishra, A. (2018) “Separation of Indian classical seven tune signal from musical instrumental mixed signal using PCA/ICA based Fast-ICA method”, pp.1301-307

Computer Science Engineering

Rao, S.C. (2018) “Deep Learning using Image Processing review”, **IJMTE**, December 2018

Patnaik, S. (2018) “Social Media Data Analytics using Visualization”, **IJSRET**, April 2018

Agarwal, P. (2018) “A New Hybrid Approach using Fuzzy Clustering and Morphological Operation for Lung segmentation in CT Images”, **Biomedical and Pharmacology (Scopus)** October 2018

Seekoli, A. (2018) “Raw Data Processing with HQL and Pig”, **IJMTE**, December 2018

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School of Management

Rao, S.K. (2018) “Saukaryam: an e-Governance initiative of Greater Visakhapatnam Municipal Corporation” **International Journal of Management, Technology & Engineering**, Vol. 8, No.12, 2018.

Pani, P. (2018) “Living Pedagogically in the Digital Age: New Perspectives of English Language Teaching & Learning”, **Asian Quarterly: An International Journal of Contemporary Issues**, Vol. 15, Issue no. 4, Feb 2018.

Pani, P. & Kumar, S. (2018) “Socio-cultural Practices in Saura Tradition”, **Research Chronicler**, Vol. VI, Issue 1, 2018

Patnaik, R.P. (2018) “Factors Influencing Consumer Buying of Dairy Product: A Study In Odisha” **International Journal of Current Research in Life Sciences**, Vol. 07, No. 02, pp.1128-1131

Das, S.S. (2018) “Smokeless Chulha- A Way for Enhancing Quality of Life” **International Journal of Research and Scientific Innovation**, ISSN: 2321 – 2705

Das, S.S. (2018) “Technology Diffusion: A Marketing Perspective” **International Journal of Creative Research Thoughts**, ISSN No. 2320-2882

Bose, B.K. (2018) “Transforming India: Issues and Challenges”, **School of Economics, Political Science and Management, Gangadhar Meher University, Sambalpur**

Bhujabal, B. (2018) “The Business Quiz Games, Vol- 1” **E-book**

Das, Madhusmita (2018) “Livelihood in Bhitarkanika Wildlife Sanctuary, India: An Impact Assessment of Ecotourism Practices”, **The Singapore Economic Review**, ISSN No. 0217-5908, 2018, 63(1), 1-29

Nayak, U.K. (2018) “*Leveraging the Human Capital for Organization Sustainability in SMEs: A Knowledge Based Perspective*”, **Pratibimba**, ISSN No. 9725466, 2018

Dash, S.R. (2018) “*A Study on Cross Border Trade Policies & Developments with Special Reference to Emerging Economies*”, **ESPACIOS, Venezuela, Publisher: Revista Espacios**, ISSN No. 0798-1015, 2018, 39 (34), pp. 11 – 23

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Das, B (2018) “*Technology Adoption in Agriculture and its Determinants*” **Routledge, Taylor and Francis Group.**, ISSN No. 978-1-138-28629-0, 978-1-315-26853-8, 2018, 112-129

Patjoshi, P.K. (2018) “*Analysing Liquidity Management and Financial Performance Practices of ONGC and IOCL*”, **Journal of Siddhant**, ISSN No. 2231-0649, 2018

Nandini, G. (2018) “*Education of women: A better future of the society*”, **Journal of Innovative Professional Science & IT (JIPSIT)**, ISSN No. 2348-6619, Vol-5, Issue-1, pp- 22-26

School of Agriculture

Mishra, P., Singh, N., Jain, A., Jain, N., Mishra, V. and Puspallata, G. (2018) “*Identification of cis-regulatory elements associated with salinity and drought stress tolerance in rice from co-expressed gene interaction networks*”.

Shankar, R. & Praveen, B. (2018) “*Bio fertilizers- A Noble Technology for Sustainable Agriculture*”

T, Tejib, Sarkar, T., Meduri, M. & Dutta, N. (2018) “*Effect of Packaging Material and Storage Period on Physic -Chemical Attributes of Osmotic Dehydrated Ripe Sapota Slice*”

T, Tejib, Sarkar, T., Meduri, M. & Dutta, N. (2018) “*Impact of Packaging Material and Storage Period on Nutritional Attributes of Osmotic Dehydrated Ripe Sapota Slices*”

Pradhan, K., Nandi, A., Das, S., Sarkar, S., Sahu, G.S. & Patnaik, A. (2018) “*Genetic variability and varietal performance in ash gourd [Benincasa hispida (Thunb) Cogn.] Genotypes*”

Pradhan, K., Nandi, A., Das, S., Sarkar, S., Sahu, G.S. & Patnaik, A. (2018) “*Genetic diversity analysis of Ash gourd (Benincasa hispida (Thunb.)Cogn.) Germplasm by Principal Components*”

Pradhan, K., Nandi, A., Das, S., Sahu, N., Senapati, N., Misra, S.P., Pandey, G. & Patnaik, A. (2018) “*Quantification of capsaicin and Ascorbic acid content in twenty four Indian genotypes of chilli (Capsicum annum L.) by HPTLC and Volumetric method*”

Satapathy, R.R. (2018) “*Management of Colletotrichum Gloeosporioides (Penz.) Causing Cashew*”

- Umamaheswari, T., Beura, S.K., Dhal, A.K. & Mary, D.S. (2018) “*In-vitro Evaluation of Fungicides against Myrothecium Leaf Blight Disease of Cotton*”
- Umamaheswari, T., Beura, S.K., & Mary, D.S. (2018) “*In vitro evaluation of Phyto-Extracts in the management of Myrothecium Leaf Blight of Cotton incited by Myrothecium Roridum*”
- Pushparani, A., Banerjee, S., Maurya, P.K., Bhattacharjee, T., Jamir, I, Chaterjee, S., Mandal, A.K., Dutta, S. & Chattopadhyay, A. (2018) “*Okra (Abelmoschus esculentus L. Moench) for Selecting Donor Parent Aiming at Enation Leaf Curl Virus Disease Tolerance in Eastern India*”
- Yadav, Y., Maurya, P.K., Pushparani, A., Jamir, I., Bhattacharjee, T., Banerjee, S., Dutta, S., Debnath, D., Mandal, A.K., Dutta, S. & Chattopadhyay, A. (2018) “*Enation leaf curl virus (ELCV): A real threat in major okra production belts of India: A review*”
- Panigrahi, A., Sundaram, M., Saranya, C., Swain, S., Dash, R.R. & Syamadaya, J. (2018) “*Carbohydrate sources differentially influence growth performances, microbial dynamics and immunomodulation in Pacific white shrimp (Litopenaeus vannamei) under biofloc system. Fish and Shellfish Immunology*”
- Swain, S., Banerjee, P., Chadha, N.K., Sundaray, J.K., Prakash, C. & Tibile, R.M. (2018) “*Effect of varying water pH on hormonal and haematological parameters of Discus (Symphysodonaequifasciatus)*”
- Borkataki, S., Bhattacharyya, B., Bhagawati, S., Taye, R.R. & Mishra, H. (2018) “*Aquatic insect fauna of Majuli river island of Assam*”
- Borkataki, S., Bhattacharyya, B., Bhagawati, S., Taye, R.R. & Gogoi, D. (2018) “*Composition and Diversity of Aquatic Insects of Majuli River Island of Assam*”
- Taye, R.R., Deka, M.K., Borkataki, S., Panda, S. & Gogoi, J. (2018) “*Effect of Electromagnetic Radiation of Cell Phone Tower on Development of Asiatic Honey Bee, Apis cerana F. (Hymenoptera: Apidae)*”
- Taye, R.R., Rahman, A. & Borkataki, S. (2018) “*Molecular characterization of dwarf honey bees, Apis florea f. and Apis andreniformis smith from north east Himalaya*”
- Singh, P.K. & Sadhukhan, R. (2018) “*Ems and gamma radiation induced mutation in grasspea (Lathyrus sativus L.)*”
- Singh, P.R., Karak, C., Mohapatra, P.P, Kumar, B.A. and Hazra, P. (2018) “*Manifestation of Heterosis in Bitter gourd*”

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 2018-19

Sl. No.	Title of workshop with dates
1	Skill Development program for Five days on Engineering concept behind the Electric Bike 5th to 10th December 2018.
2	7 days Intensive Training on NDT program conducted on 3 rd to 10 th oct 2018
3	Workshop on System Engineering conducted from Dassult System from 3 rd to 5 th oct 2018 at CUTM ,PKD
4	Workshop on Basic MATLAB and Model-Based Design using Simulink conduted at CUTM, PKD from 26 Sep 2018 to 29 Sep 2018.
5	Skill development program on Go-To-Market kick-off from Dassult System conducted on 26sept 2018,CUTM,PKD
6	3rd International Conference on Management, Sciences, Engineering and Applications (ICMSEA – 2018)
7	A Career Talk Counselling for the students of School of Management was organised on 21 Feb 2018.
8	A Career Talk Counselling was organised on 27 Feb 2018 at School of Management, Paralakhemundi Campus. Mr. Dibyendu Basu, Chief Manager, HRD, JK Paper was the resource person.
9	A seminar on Agriculture Finance was organized on 24 th August 2018 for MBA, BBA & B.Com students. The resource person for the same was Mr. Dilip Tripathy, Product Head, DCB Bank, Corporate office Mumbai
10	Induction program on certificate course on Saura language was held on 1 st March 2018 at the tribal village 'Abjansing'. Mr. Antarjyami Gamanaga, special development council, Gajapati district was the chairperson.
11	Seminar on Entrepreneurship Development was organised on 5 th March 2018 in Collaboration with District Industry Centre (DIC), Gajapati.
12	One Day Marketing Workshop on "The P Factor"
13	A workshop on "Data analysis" was conducted for all students of school of Management on 6th April 2018 by Prof. D.N. Rao.
14	Hisab Nikash 2K18, the flagship budget analysis event was organized in School of Management.
15	Panel Discussion on Tax: GST: Confusing Or Customer Friendly & Agriculture: Organic Food: A Style Statement For The Niche was organised on 1 st October 2018.
16	A community awareness programme at Barlanda village was Organised on 12 th April 2018
17	Organized a Mass Yoga Session for students And staffs on International Yoga Day

18	IELTS workshop was organised by Dr. Prajna Pani for faculty of all schools from 16 th August to 5 th October 2018 in the Language Laboratory, Parlakhemundi campus.
19	A Career Talk Counselling was held on 22 nd November 2018 At SoM, Paralakhemundi Campus. Mr. Debraj Behera, from World Bank was the resource person.
20	Workshop on Computational Thinking was organised from 26 th to 28 th January 2019.
21	One Day Seminar on Water, Sanitation and Hygiene Issues and Interventions in post Disaster scenario was organised on 30th January 2019.
22	A training programme was conducted on "Healthy Shrimp and GIFT Tilapia Culture Using Bio floc Technology" in association with TNJFU – NFDB in Sep 2018
23	National Fish Farmer's Day celebrated on 10 th July
24	Kissan Mela organized on 13 th and 14 th March 2018. Director, CIWA joined as the Chief guest in the programme.
25	A talk on " <i>Engineered bacteria with NiCoT genes for bio removal of trace cobalt from spent decontamination solutions of nuclear power reactors</i> " on 9 th March delivered by Dr. Raghu Gogada
26	Vegetable packaging training programme conducted on 21st to 26th March
27	APSSDC - Skills training at CUTM, Vizag Campus & Pathapatnam YTC on 27th March 2018
28	1000+ farmers training conducted on 23rd March in Mohana block with our project partners SACAL
29	Students, Faculty interaction with Dr. S.K. Srivastav, Director, ICAR-CIWA and Dr. I. Sharma, Regional Director, Regional centre of organic farming was organised on 13th March
30	Cosmic farming Live orientation programme telecasted on 28th & 29th July 2018. Farmers from different villages attended.
31	Tribal conclave (Tata & Centurion University) –organized on 1st and 2nd September
32	Observation of Social science Day celebrated, Prof. Raj, SoA University and DHO, Gajapati addressed the students as guest.
33	Birthday of M.S. Swaminathan and Inauguration of Agrifora Students Society on 7th August has been organized and Dr. Veerabhadra, retired scientist from N.G. Ranga University, AP inaugurated the society.
34	Awareness Camp on Sustainable Enterprise-2018 on 29 th October 2018 was organised.
35	Talk on SRI method of Rice cultivation by Mr Ashutosh Pal, Scientist, TATA Steel; on 4th August 2018
36	Seminar on VLSI A Future Technology and its career Scope
37	Workshop on Setting up skill excellence centre for mining sector in Odisha, 8 th Oct 2018

38	Seminar on Trans-disciplinary research in Mining Engineering organised on 17 th March 2018
39	Workshop on Build your own Computer by Mr. Monoj Kumar Behera, from 1 st to 8 th November 2018
40	A student development program on Introduction to GIS was been organised by faculty Mr. Kamal Kumar Barik from 10 th to 17 th December 2018.

7. Faculty & Staff Development Programmes

The Faculty and Staff are the most important resource of the University. As on 31st March 2019 the University has 98 number of faculty and 49 number of staff. To improve the faculty resource in line with the needs of the internal and external environment, the University recruits 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. Such details are presented in Table 7.2.

Table 7.1: Details of In-house Faculty Development Programmes (2018-19)

Sl. No.	Topic
1	Faculty Development Program (FDP) on Digital Manufacturing Dassult Systems , conducted by CUTM, on June 26 th -27 th 2018
2	FDP Program and training on Electric Vehicle (EV) from Imperial Society of Innovative Engineers from 26 th Nov to 2 nd Dec, 2018 at CUTM, PKD.
3	FDP on MATLAB Programming May-2018
4	FDP on Modern Power System organised by Electrical Department, 20 th Nov 2018.
5	FDP on Reinforced Concrete Structure Design Using STAAD Pro. for 3 days on 21st, 22nd and 24th May 2018

Table 7.2: Details of Participation in External Faculty Development Programmes (2018-19)

Sl no	Faculty	Particulars of FDP
1	Ms. Rupanita Das, Mr. Deepak K Barik and Mr. Harish Ch. Mohanta	FDP on Optical Engineering on 28 th December 2018 at CUTM Jatni Campus

2	Ms. Subhalipsa Das	Attended a FDP on Development of Laboratory Instructions organised by NITTTR from 31 st Dec 2018 to 4 th Jan 2019
3	Ms. Sweta Das, Mr. Rakesh Jena	Attended FDP on FEAST VSSC-ISRO Software
4	Ms. Sipalin Nayak,, Ms. Sweta Das, Mr. Rakesh Jena, Mr. Durga Prasad Sahoo	Attended FDP on Reinforced Concrete Structure Design Using STAAD Pro. for 3 days on 21st, 22nd and 24th May 2018 at CUTM.
5	Ms. Sipalin Nayak, , Ms. Sweta Das, Mr. Rakesh Jena, Mr. Durga Prasad Sahoo, Ms. Sagarika Panda	Attended FDP on Architectural Designs using Revit software.
6	Mr. Manoj Kumar Behera	FDP on Research Methodology using SPSS & AMOS (1 st of Sep,18)
7	Prof. Pramod Patjoshi,	Attended FDP on Active Learning on 23 Oct 2018, delivered by R.A. Hollen and facilitated by Prof. S.K. Bose.
8	Dr. Prajna Pani	Prajna Pani participated in FDP organised by Wadwani Foundation, CUTM, Bhubaneswar, 19th-24 th June 2018.
9	Dr Prajna Pani and Dr Amir Prasad Behera	Attended a FDP organized by wf-global training institute at CUTM, Bhubaneswar campus from 19th June-24th June 2018
10	Dr. Amir Prasad Behera	Faculty Development Program on “Facilitator of Success” at Centurion University of Technology and Management Bhubaneswar Campus, organized by Wadhawani Foundation from 19th to 24th June , 2018
11	Prof. Girija Nandini	Attended FDP on Active Learning on 23 Oct 2018, delivered by R.A. Hollen and facilitated by Prof. S.K. Bose.
12	Prof. Bijay Bhujabal	Attended FDP on Active Learning on 23 Oct 2018, delivered by R.A. Hollen and facilitated by Prof. S.K. Bose.

8. Recognitions & Achievements

Ph.D. Awarded

- Dr. Rashmi Ranjan Parida in Marketing from IIT, Kharagpur
- Dr. Duraga Prasad Padhy was awarded PhD by Kalinga University, Chhatisgarh in the month of May, 2018
- Mr. Sanat Kumar Lenka in English “Teaching and Learning of English: A Study of the Government Schools in Khordha, Odisha”
- Mr. Nagala Shyam Venkata Nooka Raju "A Study on the Factors Influencing Investor's Decision Towards Investment in Equity Shares: Selected District of Andhra Pradesh"
- Prof. Umakanta Nayak was conferred with the PhD. degree in Management at the 6th Annual Convocation 2018. School of Management wishes him best wishes.

Session Chaired, Talk Delivered

- Chaired a session chaired by Prafulla Kumar Panda at International Conference on Management, Sciences, Engineering and Applications (ICMSEA) at BITS,Vizag December 20th to 22nd 2018
- Paper presented by Atanu Deb in the International Conference on “Emerging Technologies, Systems and Applications (ICETSA-2018)" on 21st – 23rd April, 2018 at Jharkhand Rai University, Ranchi, India and got the best scientist award
- Dr. Rashmi Ranjan Parida and Prof. Umakanta Nayak at Xub Sustainability Summit 2018” on The Title, “Urbanization, Water and Governance-A Sustainable Perspective” held from 9-10 February 2018 at Xavier University.
- Prof. Prajna Pani invited as a Resource Person by the Dept. of Economics under the special course-Masters in Energy Economics, Banaras Hindu University (BHU) to organise a 5 Day Workshop on Soft Skills and Corporate Readiness from 30th Oct. to 3rd Nov. 2018
- Prof. Prajna Pani invited as a Resource Person to a 2 day workshop on Soft Skills and Corporate Readiness, Veer Surendra Sai University of Technology, Burla, 25th -26th Aug. 2018

9. Collaborations & Networking

During the year the University signed MoUs with 30 institutions within the country and 2 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	Northern Institute, Charles Darwin University, Australia	Develop International Partnership for Submission of Research Funding Application to Australian Research Council for Grants
2	The University of Western, Australia	Developing possibilities for academic and cultural interchanges in teaching, research and other activities
3	Deakin University	Research on Farmer Health and Lifestyle and Clinical Assessments for Farmers, Agricultural Workers and Rural Population
4	Dedicated Agri-Services, Mumbai	Academic, Research and Project Collaboration in the areas of Agricultural Domain
5	Norwegian University of Science and Technology (NTNU)	Strengthening Masters in Skill & Entrepreneurship Development, Faculty & Student Exchange
6	Robert RBEI Engineering and Business Solutions Private Limited	Work for the benefit of Optometry, Bio-Medical, Sciences and other Relevant Branches
7	International Business School, France	Strengthening Masters in Skill & Entrepreneurship Development, Faculty & Student Exchange

10. Events

10.1 CSR Activities

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

Cultural Activities

- 72nd Independence Celebration on 15th August 2018
- CSR Cultural Fest was organised by students from Dance & Music Club on 6th September, 2018
- A Literacy Drive was conducted by the Youth Red Cross on the occasion of International Literacy Day on 8th September, 2018
- Ganesh Puja was celebrated by the students in a grand way on 13th September, 2018
- Viswakarma Puja was celebrated in a grand way on 17th September, 2018
- Dance Learning workshop was organised on 7th & 8th December, 2018 and facilitated by Ms. Debasmita Patnaik (Trained Dancer)
- Street Play & Flash Mob was conducted under Swachh Centurion (movement against Tobacco & Alcohol) on 1st September, 2018
- On the occasion of Teacher's day many competitions were organised on 5th September, 2018
- World Engineers Day was celebrated by the students on 15th September, 2018
- Gandhi Jayanti celebrations was observed on 2nd October, 2018
- Essay Writing Competition was conducted on the occasion of National Education Day on 9th November, 2018
- 6th Convocation was organised at Paralakhemundi Campus on 1st December, 2018



Sport Activities

- Kabbadi Championship was organised on 15th August, 2018 with 12 league matches
- Micro Marathon was organised on the occasion of National Sports Day on 29th August, 2018
- Run for Unity Marathon was organised on 30th October, 2018

- Centurion Premier League was organised on the occasion of Republic day on 26th January, 2019



Socially Responsible Activities

- E Waste Management workshop was conducted to generate awareness for sustainable e waste management practice on 7th April, 2018
- 60 Students registered for Swachh Bharat Summer Internship from 20th May to 31st July, 2018
- Cleanliness & Plantation Drive was conducted by NSS & CSR student coordinators on 6th July, 2018
- Distribution of food and knowledge to the Orphans at Vivekananda Ashram by NSS volunteers on 6th July, 2018
- Blood Donation Camp organised by Youth Red Cross on 21st July, 2018
- On the occasion of World Humanitarian Day the NSS volunteers visited Navajivan Orphanage on 19th August, 2018
- Plantation Drive conducted on the occasion of Raksha Bandhan on 26th August, 2018
- Blood Donation Camp organised by Youth Red Cross on 22nd September, 2018
- Blood Donation Camp was organised at the District Headquarter on the occasion of National Voluntary Day on 1st October, 2018
- Mega Cleanliness Drive was organised on the occasion of Gandhi Jayanti on 2nd October, 2018
- Health & Vision Check-up camp was organised on 25th August, 2018

10.2 Distinguished Visitors

There were a number of distinguished persons who visited the University during the year, the same are presented in Table 10.1.

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.

Table 10.1: Distinguished visitors

Sl. No	Date of Visit	Name of Visitors	From
1	16 th March 2018	Mr. Pavan Reddy	ACE Engineering Academy
2	6 th Dec 2018	Mr. Purna Mohanty	Tessolve
3	17 th Jan 2018	Er. SuryakantHota	CONVOCON
4	24 th July 2018	ErAmitavMitra	Dalmia
5	18 th June 2018	DhanadakantaMishra	Dpt. of Civil and Environmental Engg, Hong Kong University of Science and Technology
6	11 th August 2018	Mr. Ashok Menon	Head HR. Sadhvb Group
7	14 th Dec	Mr. Kanwar Samsheer and Mr. Ajay Mahajan	Jaquar Foundation
8	28 th Dec 2018	Dr.JagannathNayak	Director of CHESS Laboratory, DRDO, Hyderabad
9	9 th January 2018.	Mr. Amitabh Mohanty,	Business Manager Force Motors Ltd.
10	10 th January 2018	Mr. Shilabhadra P.Parida,	Management and Technical Consultant from Ireland
11	16 th Feb 2018	Dr. Amarendra Das,	Professor-Economics from NISER,

12	5 th Feb 2018	Mr. Monoranjan Panda	Consultant from Moyilal Oswal Securities Limited
13	7 th Feb 2018	Mr. P. K. Parmanik,	Director, Fasttrack Consultancy
14	5 th March 2018	Mr. Krushna Baliarsingh	Area Manager, Vistaar Financial Services Pvt. Ltd.,
15	8 th March 2018	Mr. Anjani Kumar Mishra	HR Manager from Shahi Exports- Skill Development
16	13 th March 2018	Mr. Ali Kishore Patnaik and Mr. Abhijit Patnaik,	Founder of Odisha Diesel. Executive Director-Sales and Marketing from Odisha Diesel Engines
17	20 th -22 nd March 2018	Mr. C R Subramanya,	Consultant from <i>sansRisk</i> Business Solutions P Ltd, Hyderabad
18	9 th Oct 2018	Mr. Jagdish Patnaik	VP, Cluster Head of Axis Bank
19	10 th Oct 2018	Mr. Satish S. Prabhu	Corporate Leadership Trainer
20	3 rd Nov 2018	Mrs. A. Annapurna	HR-Director of Inspirage
21	21 st Nov 2018.	by Mr. Rajat Kujjur	Profesor, Sambalpur University
22	15 th Nov 2018	Mr. Anirban Ghosh,	Chief Sustainability Officer, Mahindra Group
23	21 st Dec 2018	Mr. Brajendra Bhujabal	Director, Engineering – Analytics and AI, Adobe System, INC, USA
24	4 th Jan 2019	Ms Smita Chakrabarty	ICIC Securities
25	18 th Jan 2019	Mr. Thomas Matthew	CEO, Odisha Capital Market Enterprises Ltd.
26	10 th July 2018	Prof. Bhupesh Deka	KLU, Guntur
27	3 rd August 2018	Mr. Munirathnam	Aerospace-Automotive

28	1 st Sep 2018	Mr. Rabindra Sah	Dassault Systems
29	Sep 2018	Dr. K.Venkata Subbayya	Chairman-BOS, Andhra University, Visakhapatnam
30	3 rd Aug 2018	Er. Muniratnam	Chairmain of Aerospace board of SAE
31	June 2108	Er. Rabindra sah	Tata Technologies
32	21 st Feb 2018	Mr. Sumit Swarnanaya	IIT, Varanasi Alumnus And Founder Agri Mach India Along
33	27 th Feb 2018	Mr. Dibyendu Basu	Chief Manager, HRD, JK Paper
34	5 th March 2018	Mr. Dilip Tripathy	Head, DCB Bank, Corporate office Mumbai
35	2 nd Feb 2018	Mr. Debraj Behera	World Bank
36	24 th Aug 2018	Mr.Birajaprasad Singh	Project Executive, Dhan foundation
37	22 nd Nov 2018	B. Shivarudrappa	Programme Director, BAIF
38	3 rd Jan 2018	Ms. Sandhya	Director, Sanara organics
39		K.V. Ravi Kanth	CEO, Jain Irrigation Ltd
40	14 th March 2018	Mr. Himanshu Sharma	Vice President-Operations-Polycab –Halol (Gujarat)
41	23 rd March 2018	Mr. Mendu Srinivasulu	Vice President, eFresh Agribusiness Solution Pvt Ltd, Hyderabad
42	24 th April 2018	Mr. P.S, Rao and Mr. Dharmesh Kumar	Welspun Corp Ltd
43	10 th May 2018	Mr.Manas Manogaram	Zoho Corporation
44	18 th July 2018	B.K Swain	GM-HR Corporate, Patanjali Ayurved Ltd, Haridwar
45	3 rd Aug 2018	Mr. M. Gopi Krishna	HR Business Partner - India, Advanta Seeds

46	18 th Aug 2018	Mr. I.V.S Ranganath	HR Head , Shriram bIo seeds Genetics & Research India, Hyderabad
47	31 st Oct 2018	Sri SriHari,Vice president	eFresh Agribusiness Solutions Pvt Ltd.
48	9 th Nov 2018	Dr.Babu and Dr.Kanan	Himalaya Drugs, Bangalore
49	4 th August 2019	Mr.Asutosh Pal,	Scientist , Tata steel
50	5th to 9th August, 2018	Deakin Student's Mobility Team	Deakin University
51	Feb 2019	Mr. Alok Mishra	Former Director, National institute of Agriculture and Horticulture
52	7 th August 2019	Dr. Veerabhadra	Retired scientist from N.G. Ranga University, AP

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.



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CENTURION UNIVERSITY OF TECHNOLOGY & MANAGEMENT (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

CENTURION UNIVERSITY OF TECHNOLOGY & MANAGEMENT (Bhubaneswar Campus)

At – Ramchandrapur, P.O. - Jatni, Bhubaneswar, Dist.: Khurda – 752050, Odisha, India Phone: (0674) 2492496,
Fax: (0674) 2490480

CENTURION UNIVERSITY OF TECHNOLOGY & MANAGEMENT (Corporate Office)

17, Forest Park, Bhubaneswar, PIN – 751009, Dist.: Khurda, Odisha, India. Tel: +91 (0674) 2596228, Fax: +91
(0674) 2596229