

ANNUAL REPORT

2017-18



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

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List of Abbreviations

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

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 2017 to March 2018. 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 the Training of Trainers (ITOT) and 'Skill University' by the Government of Odisha, and National Employability Enhancement Mission (NEEM) facilitator by the All India Council of Technical Education (AICTE) in August 2017. Earlier, it received 12B status from the University Grants Commission (UGC) in December and 'A' Grade from the National Assessment and Accreditation Council (NAAC), Government of India. During the year, the M.S. Swaminathan School of Agriculture was given "Best Institute" award by All India Agriculture Students Association (AIASA).

The University offered 2 Certificate, 11 diploma, 36 undergraduates and 33 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 8965 by end of 2017.

Over the year the University has launched a number of new programs, moved to new places, developed new partnerships, consolidated the existing offerings, and improved its global footprints through student and faculty exchanges. During the year, four new schools such as School of Forensic Sciences, School of Education, School of Open and Distance Education and School of Mining have been started. In 2017, the University launched new courses, such as M.Sc.Ag in Agronomy, Agricultural Extension and communication, Horticulture (Vegetable science), Molecular Biology and Biotechnology, Genetics and Plant Breeding; and B. Sc. (Fisheries Science).

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.

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 has four constituent campuses at Paralakhemundi, Bhubaneswar, Balangir and Rayagada. 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 (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 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

- Diploma in Community Health Practices in collaboration with Swasthya Swaraj, and Work Integrated Skill Training and Apprenticeship (WISTA);
- B.Sc. (Horticulture), B.Tech. (Dairy Technology), B.Sc. (Fishery), B.Tech. (Aerospace) and B. Tech. (Automobile);
- Integrated B.Sc. & M.Sc. (Medical Laboratory Technician);
- PG Diploma in VLSI Design in collaboration with Tessolve Semiconductor;
- M.Sc. Agriculture (Soil Science), M.Sc. Agriculture (Entomology), M.Sc. (Environmental Science);
- Master by Research; and
- M.Phil. (Botany) and M.Phil. (Zoology)

The outcome of the combined and relentless effort of Placement Team resulted in 571 offers from 102 Companies in 2017-18. 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

M.S. Swaminathan School of Agriculture was established in the year 2013 at Paralakhemundi Campus. Presently the School has 366 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 Architecture, Planning and Design

School of Architecture, Planning and Design was established in the year 2014 at Bhubaneswar campus, as per the guidelines of the Council of Architecture. It offers B. Arch (Bachelor of Architecture), besides undertaking various training, research and consulting activities. 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

The School of Engineering and Technology (SoET) was established in the year 2013. Presently the School has 526 students, xx number of labs in the academic complex and xx acre of field labs for experiment in farm. 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 Paralakhemundi Campus of the School has xx Departments and the Bhubaneswar Campus of the School has xx Departments. 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. It has a total student strength of 45 students.

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. It has a total strength of 44 students.

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. It has a total strength of 63 students.

2.4 School of Applied Sciences

The Applied Sciences was established in the year 2016 at Paralakhemundi Campus. Presently the School has 457 students, 8 well equipped labs in the academic complex and. It offers courses such as Bachelor of Science (B.Sc.) program for 3 years, Master of Science (M.Sc.) program for 2 years and M. Phil for 1 years, besides undertaking various training, research and consulting activities. It has eight departments.

2.4.1 Programmes Offered

2.4.1.1 B.Sc. (Hons) Programme

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

2.4.1.2 M.Sc. Programme

- 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 a total strength of 143 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

2.6 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 2017-18 Academic year 2830 number of students were admitted in the university. It includes 258 in Diploma Programmes, 1273 in Bachelor Programmes, 433 in Master Programmes & 98 in Doctoral Programmes. The details are indicated in Table 3.1.

Table 3.1: Admission Mix in Academic Year 2017-18

Programme	Branch	PKD Campus		BBS Campus		Total
		M	F	M	F	
B.Tech.	Computer Science & Engineering (CSE)	35	24	90	29	178
	Electronics & Communication Engineering	21	8	11	4	44
	Electrical Engineering	0	0	10	3	13
	Electrical & Electronics Engineering	2	0	14	1	17
	Mechanical Engineering	25	0	38	0	63
	Civil Engineering	5	1	30	9	45
	Mining	-	-	15	0	15
	Bio Technology	-	-	3	8	11
	Computer Science Engineering – Cloud Technology & Information Security	-	-	18	6	24
	Agricultural Engineering	65	16	-	-	81
B.Sc. (Hons)	Agriculture	142	143	-	-	285
MBA	Business Administration	-	-	27	9	36
	Data Analytics	-	-	12	5	17
	Agri Business Management	1	4	-	-	5
	Development Management	3	1	-	-	4
BBA	Business Administration	21	17	26	17	81
	Retail & Hospitality	-	-	-	-	-
	Financial Inclusion	-	-	-	-	-

B.Com.		-	-	21	4	25
M. Tech.	Power System & Control Engineering	-	-	6	1	7
	Electronics & Communication Engineering	-	-	3	2	5
	Computer Science & Engineering	-	-	1	1	2
	Mechanical Engineering	-	-	12	1	13
	Structure	-	-	7	1	8
M.Sc.	Physics	1	4	40	46	91
	Chemistry	-	-	25	50	75
	Information Technology	-	-	3	2	5
	Mathematics	-	-	7	7	14
	Botany	-	-	17	42	59
	Zoology	-	-	14	78	92
B.Sc.	Optometry	6	2	10	23	41
	Information Technology	-	-	6	5	11
	Zoology	-	-	5	11	16
	Botany	-	-	3	5	8
	Information Technology- Cloud Technology & Information Security	-	-	23	15	38
	Physics	8	6	9	8	31
	Chemistry	-	-	6	10	16
	Mathematics	-	-	8	6	14
Diploma	Automobile Engineering	-	-	6	0	6
	Computer Science & Engineering	-	-	7	1	8
	Civil Engineering	8	4	14	1	27
	Electrical Engineering	32	0	27	6	65
	Mechanical Engineering	31	0	64	0	95
	Mining Engineering	-	-	57	0	57

Ph.D.	Management & Humanities	2	4	3	3	12
	Engineering	17	8	20	5	53
	Sciences	8	7	8	10	33
	Total	433	249	726	435	1843

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

Programme	Branch	RGD Campus		BLG Campus		Total
		Male	Female	Male	Female	
Integrated B.Sc., M.Sc. & BCA	B.Sc., M.Sc. & BCA	35	12	89	80	216
SoVET	Regular I.T.I students	35	07	08	00	50
	FITTER (DDUGKY)	30	00	63	00	93
	SMO (DDUGKY&PMKVY)	15	193	00	197	405
	BCBF (PMKVY)	-	-	141	83	224
	TOTAL	115	212	301	360	988

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

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 571 offers from 102 Companies in 2017-18. 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.

Students placed in different organisations are presented in Table 4.1. 13 students started their own enterprises.

During the year 2017-18, 30 & 3 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	Alkraft Thermotechnologies	10
2	APSSDC	11
3	Collabera Technology	3
4	Dassault Systems	3
5	Diversified Energy Solutions	2
6	DormaKaba India Pvt Ltd	9
7	Etech Global Service	7
8	Gateway Techno Lab	7
9	HCL	3
10	Infosys Ltd	1
11	Just Dial Ltd	9
12	Kaleesuwari Refinery Pvt Ltd	3
13	Kalisama Steel	16
14	Laxmi Plastics & Fabricators	1
15	Mahindra Electric	2
16	Mindtree Ltd	2
17	MPS Ltd	4
18	Nemhans Solutions Pvt Ltd	21
19	Radheya Machining Limited	40
20	Riaxe Systems Pvt Ltd	8
21	Rungta Mines	1

22	ScCtronics	2
23	Stanadyne India Pvt Ltd	20
24	Surya International	1
25	BYJU's	2
26	Train to Prosper	5
27	UX Reactor	1
28	Vyom Lab	2
29	Western Refrigeration	6
30	Wheels India	2
31	Agri Mach India	4
32	BAIF	14
33	Coromandel Future Positive	6
34	Dedicated Agri Services Pvt Ltd	2
35	Dependable Agri Services Pvt Ltd	1
36	Dhan Foundation	31
37	East West Seeds	1
38	FMC DuPont	2
39	Jain Irrigation Ltd	2
40	JK Paper Ltd	2
41	OMICS International Pvt Ltd	5
42	Sanra Organics	8
43	Syngenta Foundation India	6
44	Appeal Group	5
45	Asian Heart Institute	1
46	Evos Buildcon Pvt Ltd	2
47	Future Generali India Life Insurance	4
38	Piramal Foundation	6
49	Muthoot Microfin Ltd	16
50	Net Tantra Technologies	4
51	Orissa Diesel Engines Pvt Ltd	4
52	Pasupati Agrovvet Pvt Ltd	5
53	Shahi Export Pvt Ltd	5

54	Samasta Microfinance Ltd	7
55	Shriram Movers & Packer	1
56	Hindustan Teleprinter Ltd	12
57	NSK Bearing India Pvt Ltd	39
58	Pollutech Engineering	19
59	Takata Corporation	6
60	Trigeo Technologies India	13
61	Gestamp Automotive	20
62	Victors Tools	13
63	Anand Group	47
64	Krishna Group of Companies	5
65	Surya International	4
66	Magna Automotive India Ltd	23
67	Felder Group	1
68	Gestamp Automotive	10
Total		571

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. Eighteen Crore Seven Lakhs Eighty Nine Thousand One Hundred Fifty Five only. Important clients include NSDC, Centre for Entrepreneurship Development, National Urban Livelihood Mission, Badve Engineering Ltd., SBI Foundation.

Table 5.1: Details of Training & Consulting Activities Undertaken

Client Organization	Title of Project	Amount Received (Rs)
Gram Tarang Inclusive Development Service & ATYATI, Bangalore	Banking Correspondence, West Bengal, Assam, Odisha, Jharkhand, Bihar, Andhra Pradesh, Karnataka	6,99,01,805
Gram Tarang Inclusive Development Service	Digital Literacy programme	35,85,100
Board of Construction Workers Welfare Association.	Competency Assessment of construction worker	69,871,000
Ministry Of Road transport	Competency Assessment of Road construction worker	5,36,000
Centre for Entrepreneurship Development	Competency Assessment of multi Sector Industrial worker	28,640,00
National Urban Livelihood mission	Competency Assessment of Urban worker	2,54,400
Corporate CSR	Competency of Corporate Sponsored Workers	9,554,03
Badve Engineering Ltd.	Industry Specific Welder Training	16,000,00
Office of the Panchayat Samiti, R. Udaygiri	Placement based skill development	12,000,00
Integrated Tribal Development Agency	Placement Linked Employment	15,996,00
SBI Foundation	PROJECT SBI - Kaushal Vikas : Placement-Linked Medical Skill Development	13,220,000
RSB Global Transmission Pvt. Ltd.	Manufacturing of Earth Mover Components	25,000,00
Ramadevi Women's University	Skill Enhancement Certificate Course	14,750,00
NSDC (Agri Units)	Agriculture & Allied Produce	11,226,847
Total		18,07,89,155

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 2017-18 (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 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 85 number of journal articles and 25 number of articles published in conferences.

6.1. List of Publications

Electrical and Electronics Engineering

Ramoji, S.K., Rath, B.B. and Kumar, D.V. (2014) “*Optimum Design of a Hybrid PV-Wind Energy System Using Genetic Algorithm (G.A)*”, **IOSR Journal of Engineering**, Vol. 04, Issue 01, pp. 38-48.

Saroj, P. and Kishore Ray, N. (2017) “*Novel Method of Phase & Frequency Extraction during Grid Abnormalities*” **National Conference on Mechatronics Computing and Signal Processing (MCSP-2017)**

Kishore Ray, N. (2017) “*Performance of AGC under Two area Deregulated power system and its optimization in LQR*” **National Conference on Mechatronics Computing and Signal Processing (MCSP-2017)**

Saroj, K.P. (2017) “*Measurement of Transmission lines using Phasor Measurement Unit*” **National Conference on Mechatronics Computing and Signal Processing (MCSP-2017)**

Smita, J. (2017) “*Load Frequency Control of Two Area System*” **National Conference on Mechatronics Computing and Signal Processing (MCSP-2017)**

Debasis, S. (2017) “*Performance Enhancement of a STATCOM used for Voltage Profile Improvement of a micro grid*” **National Conference on Mechatronics Computing and Signal Processing (MCSP-2017)**

Rama, P.D. (2017) “*Detection of Fault in micro grid using Wavelet Transform*” **National Conference on Mechatronics Computing and Signal Processing (MCSP-2017)**

Biswajit, M. (2017) “*Modelling and Analysis of Double Fed Induction Generator using Variable Speed Wind Turbine*” **National Conference on Mechatronics Computing and Signal Processing (MCSP-2017)**

Amit, K.S. (2017) “*Model Order Reduction of Electrical Power System in State Space Analysis*” **International Journal of Science and Engineering Research Studies**

Civil Engineering

Panda, P., M. L. Narasimham, Panda, P.K. (2017) “*Rainfall Data Analysis for Estimation of Rainfall Erosivity Factor*” **International Journal of Engineering, Science and Mathematics** Vol. x Issue x

Behera, B.P., Panda, P.K., M. L. Narsimham (2017) “*Water Quality Index Mapping Using Geospatial Technology – A case Study for Paralakhemundi Town*” **Odisha Asian Conference on Remote Sensing**

Panda, P.K., M. L. Narasimham and I. V. Muralikrishna (2017) “*Disease vulnerability and control mapping using geospatial technology –a case study for tribal blocks of Rayagada*” **Asian Conference on Remote Sensing**

Ghadai, M., Panda, P.K. and M. L. Narasimham (2017) “*Studies on Assessment of Ground Water Pollution Vulnerability Index for CUTM Campus Paralakhemundi, Odisha through Application of “DRASTIC” Model*” **International Journal of Advanced Remote Sensing and GIS 2017**, Volume 6, Issue 1, pp. 2424-2435

Panda, P.K. and G. Tanuja (2017) “*Land use and land cover change detection study using space input and GIS -a case study for Gajapati district*” **Odisha international Journal of Recent Scientific Research** Vol. 8, Issue , 9, pp.2489-2491

M. L. Narasimham, Panda, P.K. and Behera, B.P. (2017) “*Disease Vulnerability Mapping Using Geospatial Technology – A Case study for Gajapati District, Odisha*” **Geospatial Public Health Symposium**

Panda, P., M. L. Narasimham and Panda, P.K. (2017) “*Rainfall Data Analysis for Estimation of Rainfall Erosivity Factor*” **International Journal of Engineering, Science and Mathematics** Vol. x Issue x

Behera, B.P., Panda, P.K. and M. L. Narasimham (2017) “*Water Quality Index Mapping Using Geospatial Technology –A case Study for Paralakhemundi Town, Odisha*” **Asian Conference on Remote Sensing**

Panda, P.K., M. L. Narasimham and I. V. Muralikrishna (2017)“*Disease vulnerability and control mapping using geospatial technology – a case study for tribal blocks of Rayagada*” **Asian Conference on Remote Sensing**

Ghadai, M., Panda, P. and M. L. Narasimham (2017) “*Studies on Assessment of Ground Water Pollution Vulnerability Index for CUTM Campus Paralakhemundi, Odisha through Application of “DRASTIC” Model*” **International Journal of Advanced Remote Sensing and GIS 2017**, Volume 6, Issue 1, pp. 2424-2435

M. L. Narasimham, Panda, P.K. and Behera, B.P. (2017)“*Disease Vulnerability Mapping Using Geospatial Technology –A Case study for Gajapati District, Odisha*” **Geospatial Public Health Symposium 2017**

Panda, P., M. L. Narasimham, Panda, P.K. (2017)“*Rainfall Data Analysis for Estimation of Rainfall Erosivity Factor*” **International Journal of Engineering, Science and Mathematics** Vol. x Issue x, Month 201x, ISSN: 2320-0294 Impact Factor: 6.765

Ghadai, M., Panda, P.K. and M. L. Narasimham “*Studies on Assessment of Ground Water Pollution Vulnerability Index for CUTM Campus Paralakhemundi, Odisha through Application of DRASTIC Model*” **International Journal of Advanced Remote Sensing and GIS** 2017, Volume 6, Issue 1, pp. 2424-2435

Sarangi, S., Narayan, B. (2017) “*Characteristics of recycled aggregate concrete with respect to composition & binder ratio variation*” **International Journal of Engineering, Science and Mathematics** Vol. x Issue x, ISSN: 2320-0294 Impact Factor: 6.765

Electronics and Communication Engineering

Pine, S. (2017) “*Performance Evaluation and Implementation of Parallel Multipliers*” **International Journal of VLSI System Design and Communication System** Vol-5, Issue-3

Pine, S. (2017) “*Controlling a Wheeled Robot through Field Programmable Gate Array*” **International Journal of Engineering, Science and Mathematics** Vol-6, Issue-8

Padhy, S.N. (2017) “*Modelling and Simulation of Bridgeless SEPIC PFC Rectifier Operating in Continuous Conduction Mode*” **International Journal of Engineering, Science and Mathematics** Vol-6, Issue-8

Patnaik, P.K. (2017) “*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

Patro, B.S. and Mandal, S.K. (2017) “*A Multi Output Formulation for Analog Circuits using MOM-SVM*” **Indonesian Journal of Electrical Engineering and Computer Science** Vol-7, PP-90-96

Patnaik, S., Parvathi, K and Mandal, S.K. (2017) “*Development of Simple Edge Detection Technique using FIS*” **Journal of Advanced Research in Dynamics and Control Systems** Issue-12, pp-323-332

Patro, B.S. and Mandal, S.K. (2017) “*Support Vector Machine based Macro-Modelling of Voltage Controlled Oscillator for Fast Synthesis Purpose*” **Journal of Advanced Research in Dynamics and Control Systems** Issue-12, pp-355-663

Patro, B.S. and Mandal, S.K. “*Macro-Modelling of OTA using ANN for Fast Synthesis*” **International Journal of Engineering, Science and Mathematics** Vol-6, Issue-8, pp-752-759

Mohanta, H.C. and Mandal, S.K. “*Frequency Reconfigurable Antenna using Meta Surface of Rectangular Loop Unit Cell*” **International Journal of Engineering, Science and Mathematics** Vol-6, Issue-8, pp-766-773

Mohanta, H.C., Kouzani, A.Z. and Mandal, S.K (2018) “*Compact Frequency Reconfigurable Meta Surface Antenna*” **IEEE EECMC Conference**

Panda, S.K. (2017) “*Developing High Performance AVM based VLSI Computing Systems: A Study*” **International Conference on Computing, Analytics and Networking**

Panda, S.K., Jena, A. and Panda, D.C. (2018) “*N-bit Pipelined CSM Based Square Root Circuit for Binary Numbers*” **Advanced Computing and Intelligent Engineering, Advances in Intelligent Systems and Computing** Vol-564

Giri, N.C. and Mishra, S.P. (2017) “*Energy Remediation by Alternate Dissemination: SPV/PSO Power in India*” **International Journal of Current Research (IJCR)** Vol-9, Issue-8 pp-56391-56397

Mechanical Engineering

Rao, P.S. (2017) “*A novel method for joining of Aluminium Alloy AA6061 plates by Friction stir Welding using Vertical Milling Machine*” **International Research Journal of Engineering and Technology** Vol-4, Issue-9

Rao, P.S. (2017) “*Experimental Investigation of EDM Parameters on Aluminium and Stainless Steel 304*” **International Journal of Engineering, Science and Mathematics** Vol-6, Issue-8

Rao, P.S. (2017) “*Effect of Hybrid Dielectric Fluid on the Performance of EDM Parameters*” **International Journal of Engineering, Science and Mathematics** Vol-6, Issue-8

Mallick, A. (2017) “*A Novel method for joining of Aluminium alloy AA6061 Plates by friction stir welding using vertical milling machine*” **International Research Journal of Engineering and Technology** Vol-4, Issue-9

Mallick, A. (2017) “*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

Mishra, S. (2017) “*Simulation of Aerodynamic flow Parameters over a simplified Sedan car*” **International Journal of Engineering, Science and Mathematics** Vol-6, Issue-8

Chand, T.K. Mohanty, M.K. and Mohanty, R.C. (2017) “*Optimize Newton Statistical Models for Fish Drying by using Regression Analysis*” **International Journal of Engineering, Science and Mathematics (IJESM)**, 6(8), pp. 104-109, ISSN: 2320-0294

Panigrahi, N., Mohanty, M.K., Mishra, S.R. and 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, 99(1), pp. 9-17, DOI 10.1007/s40032-016-0335-9, ISSN 2250-0545

Chand, T.K., Mohanty, M.K. and Mohanty, R.C. “*Exergy and Energy Analyses of a solar dryer and developed a mathematical model*” **International Conference on Smart Technologies in the Field of Engineering, Management and Sciences (SmartTech2018)**

Rath, M.K. and Acharya, S.K. (2017) “*Emission analysis of a CI engine during cold weather conditions using pre-heated air and engine using waste energy and phase-change material*” **International Journal of Ambient Energy** ISSN: 0143-0750 (Print) 2162-8246

Sethi, S.K. and Jena, B.K. (2017) “*Optimization of EDM process parameters using Taguchi Method with Copper Electrode*” **International Research Journal of Engineering and Technology (IRJET)** e-ISSN: 2395 -0056, Vol-4, Issue-4

Pati, A.K., Misra, A. and Mishra, S.K. (2017) “*Effect of Electrification of Nanoparticles on Natural Convective Boundary Layer Flow and Heat Transfer of a Cu-Water Nano fluid past a Vertical Flat Plate*” **International Journal of Engineering, Science and Mathematics** Vol-6, Issue 8, pp.1254-1264

Mishra, S., Misra, A., Ramana Rao, P.S.V. and Rao, D.N. “*Simulation of Aerodynamic Flow Parameters over a Simplified Sedan Car*” **International Journal of Engineering, Science and Mathematics** Vol-6, Issue-8, pp.1265-1274

Dash, S. and Misra, A. (2017) “*Classification of Threats in Cloud Environment*” **International Journal of Engineering, Science and Mathematics** Vol. 6, Issue 8, pp.1316-1327

Mishra, S., Mishra, A. and Ayane, T.H. (2017) “*Separation of Indian classical seven tune signal from musical instrumental mixed signal using PCA/ICA based Fast-ICA method*” **International Journal of Engineering, Science and Mathematics** Vol. 6, Issue 8, pp.1301-1307

Panda, B.S., Misra, A. and Gantayat, S.S. (2017) “*Approach and Impute the Missing Data using Rough Set Rule Induction Method*” **International Journal of Engineering, Science and Mathematics** Vol. 6,

Misra, A. (2017) “*Modelling electrification of spm on the thermal radiative Boundary layer flow of a particulate suspension over a Stretching sheet in presence of heat source/sink*” **International Journal of Engineering Sciences & Research Technology** Vol-6(9), pp.505-513

Panda, B.S., Gantayat, S.S. and Misra, A. (2017) “*A Comparative Study of Handling Missing Data in Student Data Analysis using Rough Set and Soft Set*” **International Journal of Computer Science & Engineering Technology** Vol. 8

Misra, A. (2017) “*Modelling boundary layer flow and heat transfer of a Particulate Suspension Neural, Parallel, and Scientific Computations*” **Dynamic Publishers, Inc. USA** ISSN: 1061- 5369 2017, Vol.25, pp.417-433

Parida, M., Nanda, S.P. and Mishra, S.C. (2017) “*Sea water corrosion of Nickel base plasma spray coating*” **7th National Conference on Processing and Characterization of Materials (NCPCM 2017)**, NIT –Rourkela 178 012018 10.1088/1757-899X/178/1

Mallik, B. and Satpathy, J. (2017) “*Mathematical Exposition on Eye Movements in Decision Dynamics Lt Col*” **International Journal of Engineering, Science and Mathematics -by BITS VIZAG2320-0294** Pages: 146-152, Volume6, Issue 8

Patnaik, D., Nayak, S.S., Mallik, B. (2017) “*Algorithm and Architecture for Prime-Factor IDCT*” **International Journal of Engineering, Science and Mathematics** 2320-0294 Pages: 146-152, Vol-6, Issue 8

Mallik, B. (2017) “*Women Army Officers from North-East (Study on Problems and Prospects)*” **Department of Anthropology, North Guwahati College, Ghy-31**

Computer Science Engineering

Nayak, S., Panda, C.S. and Padhy, S.K. (2017) “*Efficient Multiprocessor Scheduling using Water Cycle Algorithm*” **Advances in Intelligent Systems and Computing Book Series** Vol-583

Behera, M.K. (2017) “*A Secured Proxy Blind Multi-Signature Scheme based on DLP*” **IJTRD** Vol-4, Issue-2

Nayak, S.K., Naidu, P.A. (2017) "A Comprehensive review on Cloud Computing and Security Issues" **International Journal for Research in Applied Science and Engineering Technology (IJRASET)** Vol-5, Issue-12, ISSN: 2321-9653

Naidu, P.A. and Krishna, V. (2017) "Comprehensive review on PPDM and PPDDM Techniques" **IJSART** Vol-3, Issue-12 Page No.1030-1036

Swain, S.K. (2017) "Architecture of Big Data" **International Journal of Advanced Research in Big Data Management System** Vol-1, pp.1-10

Swain, S.K. (2017) "Finding Frequent Text-Patterns on Big Data using Visualisation Techniques" **IJFRSCE** Vol-3, Issue-11

Swain, S.K. (2017) "A Review Of Big Data and its Current Research Directions" **International Journal of Engineering, Science and Mathematics** Vol-6, Issue-8

School of Management

Bhuyan, T., Satpathy, S. & Patra, A. (2017) "Use of Library Resources by the Students of Private Engineering Colleges: A Case Study of Odisha" **International Journal of Research in Library Science**, ISSN: 2455-104X, Volume No. 3, Issue No. 1

Patra, A. (2017) "Mentoring in Educational Institutes: A Holistic Approach" **International Multi Journal**, ISSN 2454-2105, Volume IV, Issue-2

Behera, A.P., Pani, P. & Patra, A. (2017) "Emotional Intelligence in Higher Education: A Scale Development" **International Journal of Education & Management Studies**, ISSN-p-2231-5632. E-2321-3671, Volume No.7, Issue-3

Pani, P. & Mishra, M. (2018) "Learning to Learn Attitude, Self-Efficacy and Communication: Exploring The Triad" **Asian Journal of Management**, ISSN: 2321-5763(Online), 0976-495X(Print)

Pani, P. & Mishra, M. (2017) "Pedagogical Implications: Factors Affecting Learners' Communication Efficacy" **International Journal of Literary Studies, IAHRW Publications Private Limited**

Pani, P. & Behera, A. (2017) "Communication Inventory: Selection and Validation with an Indian Population Sample" **Asian Journal of Management** ISSN: 2321-5763(Online), 0976-495X (Print)

Pani, P. (2017) "Mobile Apps for Active Ageing" **Indian Journal of Gerontology**, accepted for publication (Forthcoming Issue)

Parida, R.R. (2017) "Psychographic Impact on Brand Loyalty of Customers in the Rural Market" **7th IIM Ahmedabad Conference on Marketing in Emerging Economies, Indian Institute of Management, Ahmedabad**

Parida, R.R. & Sahney, S. (2017) "Cultural influence on brand loyalty of rural consumers in the Indian context" **Journal of Asia Business Studies** Vol-11

Parida, R.R. (2017) "Baba Ramdev: The Marketing Guru", **Management Doctoral Colloquium, IIT Kharagpur, Abstract Proceeding, VGSOM, IIT Kharagpur**

Parida, R.R. & Sahney, S. (2017) “*Exploration of Indian Rural Market and Marketing*” **Asia Pacific Journal of Marketing and Logistics** vol-30, No-2

Parida, R.R. (2017) “*Psycho Graphic Scale Development*” **Journal of Consumer Marketing - Scopus indexed Emerald Journal**

Parida, R.R. (2017) “*Indian MBA: A paradigm shift*” **Asian Journal of Management** vol-8, Issue-1

Parida, R.R. (2017) “*Sociographic of Rural Consumers in India*” **International Conference on Rural Management, XUB/XIMB**

Pani, P. & Behera, A. (2017) “*Communication Inventory: Selection and Validation with an Indian Population Sample*” **Asian Journal of Management (AJM)** Vol-8, Issue-3

Behera, A., Pani, P. & Patra, A. (2017) “*Emotional Intelligence in Higher Education: A Scale Development*” **International Journal of Education and Management Studies** Vol-7

Chakravarthy, P.K. (2017) “*Work Life Balance*” **International Journal of Advance Management** Impact Factor 4.59

Chakravarthy, P.K. (2017) “*CSR activities with reference to paper industries*” **Vrinda Publications**

Rao, S.K. (2017) “*Citizens' Satisfaction on Drinking Water Amenity provided by Greater Visakhapatnam Municipal Corporation*” **Journal of Advance Management Research**, ISSN: 2393-9664

M.S. Swaminathan School of Agriculture

Deb, A. and Sengupta, A. (2017) “*Family farms of East Singhbhum, Jharkhand: A PRA based analysis*” **Global Journal for Research Analysis** 6(2): 46-47.

Deb, A. (2017) “*Seasonal migration and child labour: case of brick kiln migration from Khedadidh, Jharkhand*”. *Securing Childhood: Challenges, Opportunities and Strategies*. XISS and UNICEF.

Kundu, D., Khanam, R., Saha, S., Thingujam, U. and Hazra, G.C. (2017) “*Correlations on available boron and soil properties in soils of Cooch Behar districts in West Bengal*” **Journal of Applied and Natural Science** 9(4) ISBN: ISSN-J064

Gaikwad, D.J., Barman, S., Kumar, P., Navyasri, C. and Prasanthi, P. (2017) “*Response of organic manures at different growth phases on brinjal (Solanum melongena L.)*” **National Seminar on “Nutrients and pollutants in soil-plant-animal-human continuum for sustaining soil, food and nutritional security - way forward”**

Gaikwad, D.J., Barman, S., Reddy, S.C., Sunil, K.P. and Abhishek, N. (2017) “*The effect of farmyard manures and vermicompost on morpho-physiological attributes of tomato*” **National Seminar on “Nutrients and pollutants in soil-plant-animal-human continuum for sustaining soil, food and nutritional security - way forward”**

Gaikwad, D.J., Barman, S., Swain, S., Guntha, J., Pradhan, S. and Sahu, J. (2017) “*The effect of organic manures on morphological traits of Brinjal*” **National Seminar on “Nutrients and pollutants in soil-plant-animal-human continuum for sustaining soil, food and nutritional security - way forward”**

- Hussain, M.A., Ahmad, T., Tekeste, M., Teklemariam, N., Abraham, N. and Mehari, N. (2017) “A case study of insect pest complex of citrus and their management at Keren, Eritrea, and a note on their natural enemies” **Journal of Entomology and Zoology Studies** 5(3): 1226-1230
- Kumar, S.K., Kundu, S., Nandi, P., Shekhar, S., Adhikary, R.T., Ghosh, B. and Dutta, P. “Performance of Ber in New Alluvial Zone of West Bengal” **Journal of Crop and Weed** 13(1): 189-191
- Maitra, S. and Zaman, A. (2017) “Brown manuring - an effective technique for yield sustainability of cereals crops” **International Journal of Bio-resources Science** 4(1): 1-5
- Maitra, S. and Zaman, A. (2017) “Organic farming in India: status, scope and potential” Newsletter-<http://aditicert.net/newsletter/Organic-farming-in-India-Status-Scope-and-Potential.pdf>: 2017: 1-10
- Patra, S. and Zaman, A. (2017) “Agricultural Drainage in Saline and Non-Saline Waterlogged Lands”, pp. 55-62. **In: Crop and Water Productivity in Agriculture, BCKV Publication**
- Patra, S. and Zaman, A. (2017) “Tapping the unrealized potential of residual soil moisture through mustard and rapeseed paira cropping in lowland rice ecosystem, Success stories of Water Management Project, Gayeshpur Centre” **Series-1, Published by the ICAR** in its Website: <http://www.icar.org.in> pp 114 – 117
- Patra, S. and Zaman, A. (2017) “Irrigation water and crop planning in Nadia district of West Bengal”, pp. 74-80. **Crop and Water Productivity in Agriculture, BCKV Publication**
- Pradhan, K. and Das, Rema. (2017) “Exploration and Interpretation of women stakeholders’ overall involvement in women led agricultural innovation system (AIS)” **Society of Extension Education, Agra** 17 (3) ISBN: 0972-2181 (print) & 0976-1071 (online)
- Priyadarshani, P., Mohapatra, M., Poonia, V.K., Batra, S., Kajla, A. and Poonia, K. (2017) “Efficient protocol for mini-tuber production in potato cultivar Kufri Frysona” **International Journal of Current Microbiology and Applied science** 6(4): 889-892.
- Priyadarshani, P., Mohapatra, V. and Batra, K. “Tissue culture of Potato: A review” **International Journal of Current Microbiology and Applied science** 6(4): 489-495.
- Priyadarsini L, Singh PK, Chatterjee C, Sadhukhan R and Biswas T. “Estimation of genetic variability of nodulation characters and their association with different agromorphic characters and yield in chickpea (*C. arietinum* L.)” **International Journal of Current Microbiology and Applied Sciences**. 6(9): 1928-1935.
- Prusty SR and Tripathy SK (2017).”Marketing of pulses in Cuttack district” **Indian Journal of Economics & Development**
- Pushpalatha G, Ganduri PK, Pondala RSP, Marthala VR and Gedala S “Integrated Physiological, Biochemical, Anatomical and Molecular Studies Reveals Salt Stress Responsive Mechanism Associated with Popular Rice Land-Races in Eastern Part of India” **Current Agriculture Research Journal** 5(3). doi : <http://dx.doi.org/10.12944/CARJ.5.3.13>
- Pushpalatha G “Biotechnological Interventions in Floriculture” pp. 319-339. **In: Commercial Ornamental Crops – Traditional and Loose Flowers (eds. RL Misra and S Misra). Kruger Brentt Publishers, UK Ltd.**

Senjam, P., Senapati, B.K. and Sagolsem, D. “Heritability studies of yield and its component traits in some recombinant inbred lines (RILs) of Basmati derivative (*Oryza sativa* L.)”

Senjam, P., Senapati, B.K., Chattopadhyay, A. and Dutta, S. “Genetic control of yellow vein mosaic virus disease tolerance in *Abelmoschus esculentus* (L.) Moench” **Journal of Genetics (Springer publication)**

Das, R. and Pradhan, K. “Enhancing the capacity of the women led agricultural innovation system through its diagnosis” **World Wide Journals** 7(1): ISBN: ISSN - 2249-555X

Khanam, R., Kundu, D., Thingujam, U and Patra, S.K. “Effect of different irrigation level on growth, yield and water use efficiency of tuberose in lower Gangetic Plain of West Bengal, India” **International Journal of Current Microbiology and Applied Sciences** 6(8): 1944-1952.

Sandhya .N, Vijya kumar. S, Lawrence, R. and kumar, J. “Incidence of Fungal pathogens associated with mung bean in Allahabad region” **International Journal of Agricultural Sciences.** 4267-4271

Sandhya. N. and Vijya kumar.S “Isolation and molecular characterization of of fungi present in soil samples Mungbean in Allahabad region” **Progressive Research Journal.** 1065-1069

Sankar, L.R., Sagar, L., Praveen, B. and Barman, S. “Biofertilizers – A noble Technology for Sustainable Agriculture” **Asian Journal of Bio Science**

Sarkar, S., Sarkar, A. and Zaman, A. “Effect of irrigation and phosphorous levels on broad beans (*Vicia faba* L.) for improving growth, yield and water extraction pattern” **Legume Research: An International Journal.** 40(2): 257-263.

Sarkar, S., Sarkar, A. and Zaman, A. “Effect of irrigation and phosphorous fertilization on growth, yield and nodulation of broad beans (*Vicia faba* L.)” **Indian Journal of Agricultural Research** 51(1): 69-73.

Dash, S.P., Singh, J. and Sharma, D (2017) “Genetic Variability Studies in Brinjal (*Solanum melongena* L.) for Yield and its Component Character. **Trends in Biosciences** 10 (23):4876-4878 ISBN: ISSN 0974-8431

Singh, P.K. and Sadhukhan, R. “Gamma rays and EMS induced chlorophyll mutations in grasspea (*Lathyrus sativus* L.)” **In: International Conference on “Contemporary Issues in Integrating Climate** organized by Himalayan Scientific Society for Fundamental and Applied Research

Singh, P.K., Chaterjee, C., Karmakar, N. and Sadhukhan, R. “Effect of Zn and Fe on seed yield and ODAP content in *Lathyrus*” **National Seminar on “Nutrients and pollutants in soil-plant-animal-human continuum for sustaining soil, food and nutritional security - way forward**” organized by Bidhan Chandra Krishi Viswavidyalaya, West Bengal in collaboration with National Academy of Agricultural Sciences, New Delhi. pg- 49.

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.	Topic
1.	Workshop on Revit Architecture and ETABS. The Civil Engineering Department of CUTM, Paralakhemundi, Odisha organized a three days' workshop on Revit Architecture and ETABS from 27th July 2017 to 29th July 2017 in association with industry partner Astronauts Services Pvt. Ltd.
2.	Workshop on STADPRO. The Department of Civil Engineering, CUTM Paralakhemundi campus organised a two days' workshop on "STAADPRO" from 11 th to 12 th August 2017.
3.	National Seminar on Disaster Management and Mitigation. A national seminar on disaster management and mitigation was held on 1st and 2nd September, 2017 organized by Department of Civil Engineering.
4	2nd National Conference on Mechatronics, Computing & Signal Processing, CUTM Bhubaneswar
5	2 days workshop on Siemens Station 400 by Mr. Nikhil Mohanty (Siemens Automation Engineer)
6	A seminar on Quality Management in Power system by Mr. Bejjpal Singh (QCMA consulting Inc)
7	Annual Conference of Orissa Chemical Society, Conducted by Centurion University of Technology and Management, Odisha, on 23-24 th Dec 2017.
8	2 nd International Conference on Mathematical Sciences in Engineering Applications conducted by Centurion University of Technology and Management, Odisha in association with Baba Institute of Technology and Sciences(BITS),Visakhapatnam on 22 nd - 24 th December 2017.
9	Seminar talk on "Purpose of Education", 20 Oct. 2017.
10	Workshop on Counselling, 21-23rd Nov. 2017.
11	Seminar Talk On "My Vision of India" by Prof. Triloki Nath Pandey On 14.12.17.
12	2018 Budget speech (Hisab Nikas) on 23 rd February 2018 – by School of Management.
13	Skill Development Programs in collaboration with Gram Tarang, Centurion University of Technology and Management held at Badigaon Village, Gumma block on 1 st April 2017,

14	Panel Discussion, CUTM, 17 th August 2017
15	Pop Display (Pradarshan) on 16 th October, 2017 –by School of Management
16	“The Coffee house” 20th October, 2017
17	Fiesta 2k17, an event Organized by students of MBA (Development Management) & MBA (Agribusiness Management) on 8.11.17
18	Seminar on Modern Concepts in Agriculture on 4th December 2017
19	Training-cum-awareness programme on GAP of Chilli, Maize and Baby Corn held on 12.01.2018 at Paralakhemundi, Gajapati by Sri R.K. Mondal, DGM, Agricultural and Processed Food Products Export Development Authority (APEDA), Mayukh Bhawan, 4th Floor, Bidhan Nagar, Salt Lake City, Kolkata-700091.
20	9th International Conference on ‘Hydro-Gramin Technology (Sustainable Agriculture, Rural Development and Livelihood Improvement). Held on October 28-29, 2017, Organized by the International Institute of Bengal Basin (IIBB) in collaboration with CUTM, Paralakhemundi, Odisha.
21	Training programs of farmers at different places like Barlanda, Badigaon, Engarsing, Mohana, Phulbani, Malkanigiri, Nabaragnpur, Koraput, Kalahandi, Srikakulam etc.

7. Faculty & Staff Development Programmes

The Faculty and Staff are the most important resource of the University. As on 31st March 2018 the University has 305 faculty and 637 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.

Table 7.1: Details of In-house Faculty Development Programmes (2017-18)

Sl. No.	Topic
1	FDP on “a new way of looking at oneself & Careers” 10th-11th July 2017.
2	Faculty facilitated FDP: Prof. Radhakant Padhi IISc, Bangalore, Topic Name: Comprehensive Overview of Flight
3	Faculty facilitated FDP: Prof. Radhakant Padhi IISc, Bangalore, Topic Name: Comprehensive Overview of Flight
4	Faculty facilitated FDP: Prof. Sumanjit Das, Topic Name: Programming C
5	Faculty facilitated FDP: Dr. R. C. Mohanty, Prof. Mukundjee Pandey, Topic Name: Engineering Analysis using ANSYS
6	Faculty facilitated FDP: Dr. S.K Mandal, Topic Name: Solar Photo Voltaic System
7	Faculty facilitated FDP: Dr. R. C. Mohanty, Topic Name: Optimization Techniques
8	Faculty facilitated FDP: Prof. Ipsita Mishra, Topic Name: Finite Difference Method
9	Faculty facilitated FDP: Dr. R. C. Mohanty, Topic Name: Weighted Residual Method
10	Faculty facilitated FDP: Dr. R. C. Mohanty, Topic Name: Basic Concepts of FEM
11	Faculty facilitated FDP: Prof. S. S. Mahapatra, NIT Rourkela, Topic Name: Optimization Techniques in Manufacturing
12	Faculty facilitated FDP: Mr. Mohammed Tarique Khan, Topic Name: Yamaha Two wheeler Maintenance
13	Faculty Development Programme on C Programming Solar Photovoltaic Systems,

8. Recognitions & Achievements

Ph.D. Awarded

- P. Kalyan Chakravarthy in Human Resource Management, “Stress Management”
- Amir Prasad Behera in English, “Emotional Intelligence in a Multi Sector State Private University- A Communicative Approach
- Bhavani Shankar in Computer Science Engineering, “Expert System Development for Retrieval of Missing Data through Soft Computing Techniques”
- Narayan Gouda in Chemistry, “Production of Renewable fuel from different biomasses through thermochemical conversion”

Session Chaired, Talk Delivered

- Keynote address by Dr. Anita Patra, “Issues and Prospects of Women Entrepreneurship: Cases from Rural India” at 2nd International Conference on Mathematical Sciences in Engineering Applications at BITS, Visakhapatnam
- Session chaired by Dr. Prajna Pani in the U.G.C National Seminar on Interrogating Woman, Environment, Literature: Eco critical Perspectives, SKCG College
- Talk delivered by Dr. Prajna Pani in the U.G.C National Seminar on Interrogating Woman, Environment, Literature: Eco critical Perspectives, SKCG College
- Session chaired by Dr. Prajna Pani in International Conference on Incorporating Folklore Studies in Management Practices, KIIT
- Invited as Chief guest and Keynote speaker- Prof. A. Zaman in the National Seminar on Judicious Use of Water and Fertilizer in Modern Agriculture, held at Naihati RBC College
- Invited as Chief guest- Mr. Rakesh Kumar Jena in the National workshop on Total Station & its field application” organised by Dept. of Civil Engg., Synergy Institute of Engineering & Technology
- Invited as Speaker- Prof. Jagannath Padhi on Skill Integration in education system
- Dr. Nidhi Meher as a speaker on Present Trends in automation and control systems at VSSUT, Burla
- Dr. S.K. Mandal Chaired a Session at “International Conference on Mathematical Sciences in Engineering Applications (ICMSEA – 2017)
- Dr. R. C. Mohanty delivered a seminar talk on the topic “Finite Element: A Solution to Engineering Problems
- Dr. Anurag Keynote speaker at “International Conference on Mathematical Sciences in Engineering Applications (ICMSEA – 2017)

9. Collaborations & Networking

During the year the University signed MoUs with 1 institution within the country and 6 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

- Cultural Night organised by Dance & Music Club on 5th August 2017
- On occasion of 71st Independence Day students participated in Debate, Song, Painting, Rangoli, Elocution, Extempore, Recitation, Quiz and Drawing
- 71st Independence Day celebrated on 15th August 2017
- Ganesh Puja celebration observed in the campus at Sri Vidya Venketeswar Temple on 25th August 2017
- The students of MSSSoA organised Fresher's Day on 14th September 2017
- The Unity Day pledge was recited by the students in the occasion of The Unity Day on 31st October 2017
- NCC Day was observed in the campus on 22nd November 2017
- Different committee were formed for Gajajyoti 2k18 on 30th November 2017
- Awareness Programme on AIDS prevention was conducted on 1st December 2017
- Flash Mob was conducted on 15th December 2017
- Saraswati Puja celebration observed in the campus at Sri Vidya Venketeswar Temple on 22nd January 2018
- On occasion of 69th Republic Day students participated in Debate, Song, Painting, Rangoli, Elocution, Extempore, Recitation, Quiz and Drawing
- 69th Independence Day celebrated on 15th August 2017

Sport Activities

- SPORTEX-2017 was organised by CSR team from 11th to 17th October 2017
- Athelio- Track Events like race, jump and throw were organised by CSR team on 28th October 2017
- Five cadets successfully completed the Combined Annual Training Camp from 30th October to 8th November 2017
- Badminton championship and selection conducted from 28th to 30th November 2017
- The Intra level sports and games were organised from 6th to 11th January 2018
- Cultural and literary events were conducted from 18th to 20th January 2018

Socially Responsible Activities

- Blood Donation Camp organised by Youth Red Cross on 5th August 2017
- Blood Donation Camp organised by Youth Red Cross & National Cadet Corps on 16th September 2017
- Plantation drive conducted by NSS volunteers on NSS day- 24th September 2017
- Situation Assessment survey was conducted by NSS volunteers on 22nd October 2017
- Blood donation camp organised by Youth Red Cross on 25th October 2017
- Tree plantation and cleanliness drive was organised by NSS in the campus on 29th October 2017
- NSS unit visited Vivekananda Balkalyan Ashram in S. Uruda on 5th November 2017

- World Orphans Day celebrated by NSS unit in Nava Jeevan Orphanage House, Pathapatnam on 13th November 2017
- Children’s Day celebrated by NSS unit in Nava Jeevan Orphanage House, Pathapatnam on 14th November 2017
- NSS unit visited Child care institution run by Amma Foundation on 10th December 2017



Mega Blood Donation Camp
16th December 2017



69th Republic Day Celebration



Flash Mob
16th September 2017



Art Camping
22nd July 2017



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	Detail
1	Dr. Paramananda Dutta	Illumine, Mumbai
2	Dr. V. Srinivas	Illumine, Mumbai
3	Shri. K. S. Pannu	Punjab
4	Arpila Raksif	CDC Group Plc, London
5	Guermas Cila	France
6	Sally Yalden	Braishheld, UK
7	Dr. Cripson Varghese	NSOC, New Delhi
8	Rayani Kamrba	Sagar Lifts, Mumbai
9	Mr. K. P. Murti	Bangalore
10	Dr. U. V. Basu	Himalaya Drug Company, Bangalore
11	Mr. Sibaram Vemuri	Australia
12	Mr. Horsteve Herbert	Melbourne, Australia
13	Ms. Nilam Saran,	BM,UCO bank
14	Mr. Kedar Nath Bhoi,	Tahsildar, Paralakhemundi
15	Mr. Achyutananda Janni,	ATO
16	Mr. Sidhhanta Mohapatra,	Member of Parliament, Odisha
17	Mr. R. K. Pradhan,	Chief Executive,DSMS
18	Shri Vishal Gagan	MD,OMFED Milks
19	Mr. R. K. Pradhan,	Chief Executive, DSMS
20	Mr. Kartik Chandra Mohapatra	DC Skill, Gajapati
21	Mrs. Annapurna Pandey & Mr. Steve Perker	University of California, Santa Cruz
22	Mr. A. K. Tripathy	District Employment Officer, Gajapati
23	Mr. Prakash Sharma	CFO, NSDC
24	TAFE students	Australia
25	Mr. Anupam Saha, IAS	Collector, Gajapati
26	Mr. Prof Weilding	Australia

27	Dr. R.B. Ghosh	California, USA
28	Dr. Ashwani Kumar	Former Director, ICAR-Water Management Institute
29	Dr. Prabhakar Nanda	Principal Scientist, ICAR-Water Management Institute
30	Dr. B.K. Mahapatra	Principal Scientist, ICAR-CIFE
31	Dr. Amlanjyoti Kar	Director, Central Ground Water Board, Kolkata
32	Mr. R.K. Mandal	Dy. General Manager, APEDA
33	Dr. Nawshad Haque	Senior Scientist, Western Precinct, Australia
34	Dr. Gagnesh Sharma	Regional Director of Organic Farming, Govt of India
35	Dr. U. V. Babu	Himayala Drug Company, Bangalore
36	Sri Charanjit Singh Channi	Punjab Technical Education and Industrial Training Minister and team
37	Sri K. S. Pannu	Secretary, Industrial Training
38	Mr. Rajan Ku Mohapatra	SRISTI Organisation
39	Mr. Sri Ram	BCT, Vizag
40	Dr. Gipson Varghese	National Skill Development Corporation
41	Mr. Bijaya Babu	State Manager Odisha, Dhan Foundation
42	Mr. Steven Herbert	Former Minister, Skills and Training, Australia
43	Prof. Ruth Wallace	Director, Northern Institute, Charles Darwin University, Australia
44	Mr. Beijpal Singh	QCMA consulting Inc.
45	Mr. P. Raja Manickam, Founder & CEO Mr. Purno Mohanty, VP (USA)	Tessolve Semiconductor, Bengaluru
46	Mr. Managobinda Mishra, Managing Director	Nemhans Solutions Pvt. Ltd, Bhubaneswar
47	Ms. Arpita Mitra, VP	Cranes Varsity, Bengaluru

48	Prof. D. P. Acharya, Associate Professor	Department of Electronics and Communication Engineering, NIT, Rourkela
49	Mr. D. V. R. Murthy, VP	Invecas, Hyderabad, India
50	Prof. S. S. Mahapatra	NIT Rourkela
51	Mr. Mohammed Tarique Khan	Senior Manager, Career Services
52	Dr. Sumit Chand	Altisource Technology, Bangalore
53	Mr. Deepak Kumar	Red Hat Hyderabad
54	Mr. Ram Prasad Pattanayak	Infosys , Bhubaneswar

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.

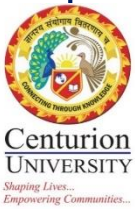
- i. Government of India
- ii. Government of Australia
- iii. Government of Norway
- iv. other National Governments
- v. International and National Organizations
- vi. Government of Odisha
- vii. Other State Government and their Agencies
- viii. International, National and State Level Companies
- ix. 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





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