



ANNUAL REPORT

2020-2021



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Prof. Anita Patra, Registrar CUTM	<i>Ex-Officio Member, Secretary</i>

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CUTM- Centurion University of Technology & Management

FDP- Faculty Development Programme

MoU- Memorandum of Understanding

MSSSoA- M.S. Swaminathan School of Agriculture

SoM- School of Management

SoPAHS- School of Paramedics & Allied Health Sciences

SoPLS- School of Pharmacy & Life Sciences

SoVET- School of Vocational Education & Training

SoABE- School of Agriculture and Bio-Engineering

SoAS- School of Applied Sciences

SoET- School of Engineering & Technology

SoMC- School of Media and Communication

Message of

VICE-CHANCELLOR

The annual report period April 2020 - March 2021 started with the nationwide lockdown due to COVID-19 pandemic. The pandemic shadowed the entire world. The academic session was taken over by online classes. The examinations were either online or postponed indefinitely. Many students from not-well-to-do families could not sustain the burden

of educational fee due to unemployment of bread owner. The Centurion University was no exception to feel the heat of the situation. However, the Centurion University kept the spirit high and constantly sailed through rough waters. The student enrolment was marginally less as compared to the year April 2019 – March 2020. Twenty-seven new research centres were established to boost the science and technology output of the university. This resulted in huge increase in publications.

The motto of Centurion University is “Shaping Lives, Empowering Communities” is very well aligned with the sustainable development goals (SDGs) of United Nations. Even amidst the pandemic period, university kept the ventures well resonating with SDGs. The university provided immediate cooperation to state government by converting university hostel to COVID-19 care centre and COVID-19 helpline was established to provide citizens with real time assistance. The new partnerships with industries and institutes all over the world were established for better education and research facilities (SDG no. 4 and 17). The schemes relating to gender equality were continued and annual report shows that the equality obtained has improved (SDG no. 5).

I thank the entire Centurion University family to stand by the university during the dark clouded era of COVID-19 pandemic. It is my privilege to be vice-chancellor of such a family. I wish all the best to every family member of Centurion University.

Prof. Supriya Pattanayak

Vice-Chancellor, CUTM



The Centurion University with the motto “Shaping Lives, Empowering Communities” provides quality education and empowers woman, economically backward communities, scheduled caste, scheduled tribes and differently abled students through various ventures.

- *Total Students: 7882*
- *Certificate courses: 32*
- *Diploma courses: 12*
- *Skill courses: 85*
- *Under-graduate courses: 69*
- *Post-graduate courses: 54*
- *Doctoral program*
- *New degree programs: 5*



The employability and entrepreneurship development through various skill trainings are equally emphasized. The university consists of, mainly, nine schools and five verticals under the “Gram Tarang” umbrella. More information could be availed at www.cutm.ac.in. The year of April 2020 – March 2021 was, majorly, a travel through challenging air due to COVID-19 pandemic. During the year, the student enrolment decreased by only 5 % as compared to that in April 2019 – March 2020. However, 30 new certificate courses, 26 under-graduate

courses and 5 new degree programs were started. To boost the research output of the university, 27 new research centres were established. The publications went up by almost 21 times. When the world was shedding the employees adding to unemployment, the Centurion University employed 57 new faculties. Again, in sciences, the average female enrolment in higher studies is more than 50%. Out of total students, the percentage of female graduates is more than 50% in applied sciences and agriculture. The total number of student placement has increased by 4%. During the year 2020-2021, the university provided consulting & training of worth Rs. Sixteen Crore Ninety Lakhs Fifty Four Thousand Six Hundred Seventy Three only. As on November 2020 the faculty strength includes 152 in Paralakhemundi campus, 123 in Bhubaneswar campus, 26 in Rayagada campus and 28 in Bolangir campus. 30 faculty development programs/staff development programs and 9 conference/workshop/seminars were organized by various schools. The eight faculties were awarded PhD in their respective fields. The students organized various cultural, sports and responsibility activities in the short span of time when university was allowed to conduct offline in between the COVID-19 pandemic. The responsibility activities were done in collaboration with various non-governmental organizations (NGO). The maximum number of cultural, sports and responsibility activities were aligned along Sustainable Development Goals of United Nations.

Even amidst the COVID-19 pandemic, the university continuously and rigorously stepped forward to keep the pace either same as last year or more than last year.



SCHOOLS and THEIR VENTURES



New Faculties Joined

Even during the COVID-19 pandemic period, Centurion University hired new faculties. The figure 1 shows the total number of faculties appointed corresponding to the schools. The university is conscious about bringing gender equality among faculties. So, track of female faculties joining is also kept. The figure 2. shows number of female faculties joined out of total faculties joined during April 2020- March 2021.

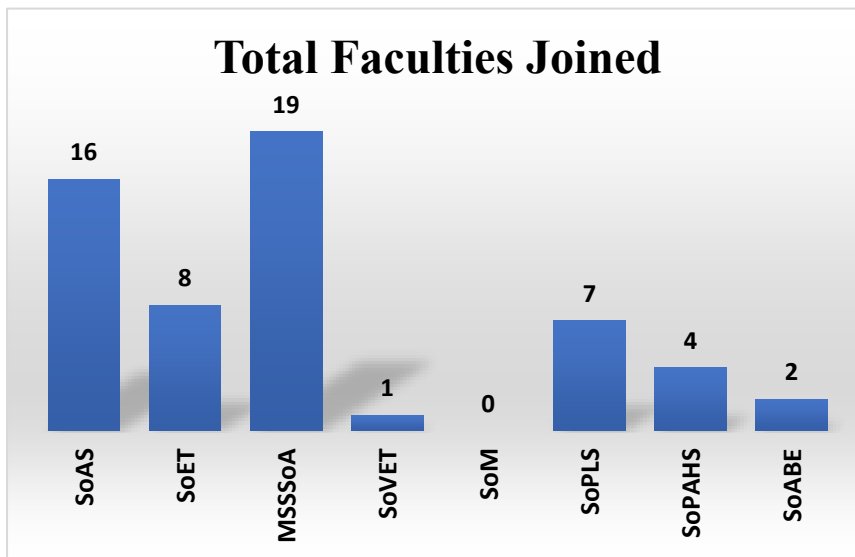


Figure 1: The total number of faculties joined during the year April 2020-March 2021.

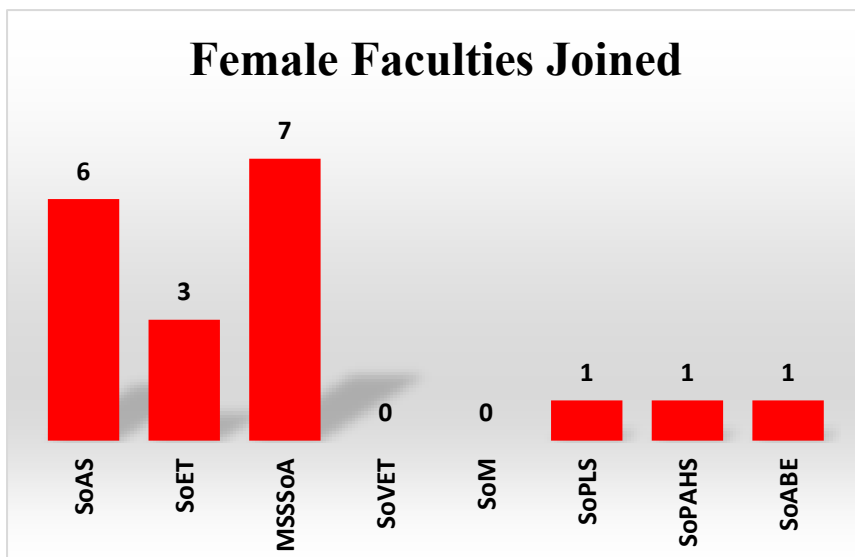


Figure 2: The total number of female faculties joined out of total number of faculties joined during the year April 2020-March 2021.

The percentage of new female faculty is around 33.3%, which is more than the previous year. Even during the COVID-19 pandemic the university is able to increase the female faculty percentage.

SoET

- Bachelor's in aviation (with partner GATI)

SoM

- MBA in Rural and Urban Development Management (with partner COSA)

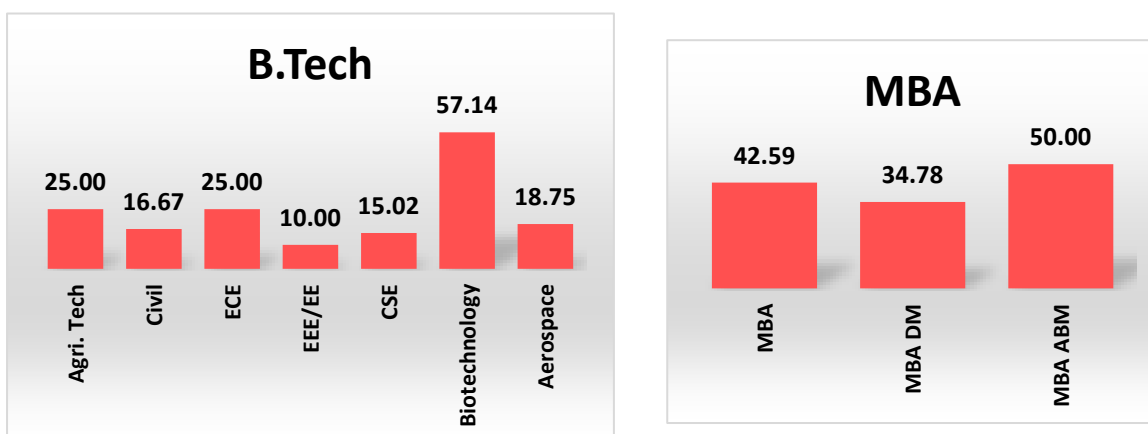
SoPAHS

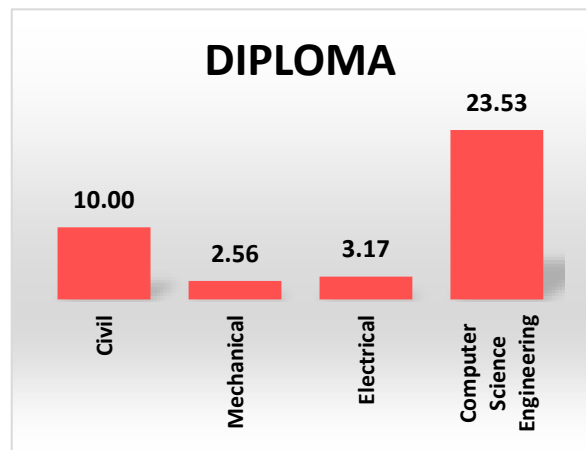
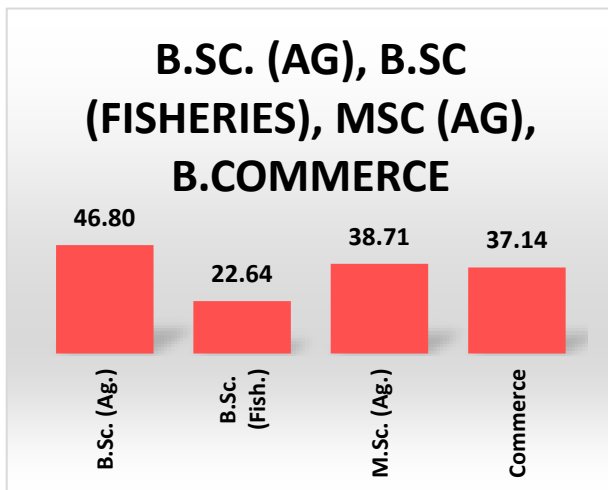
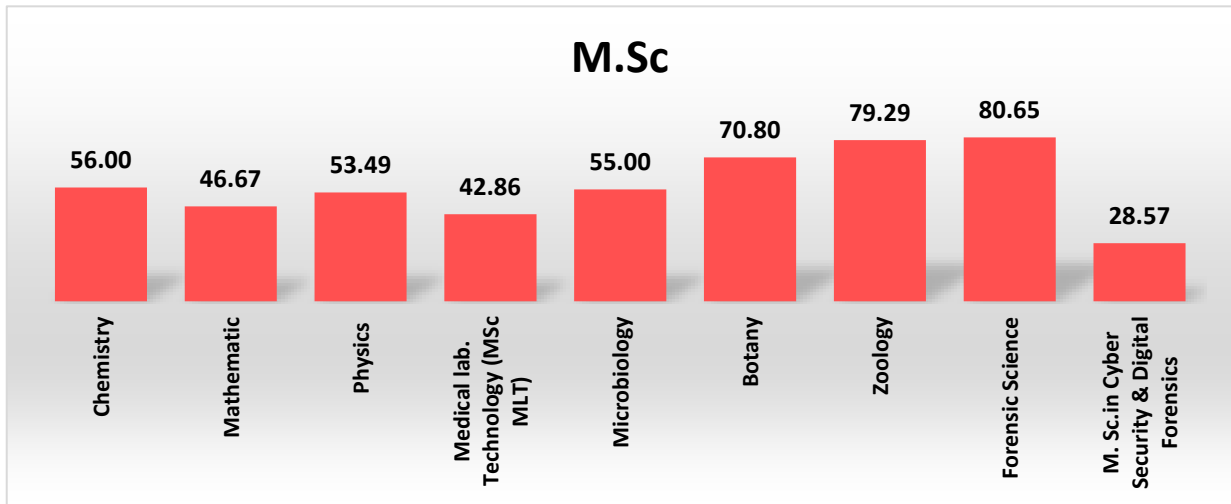
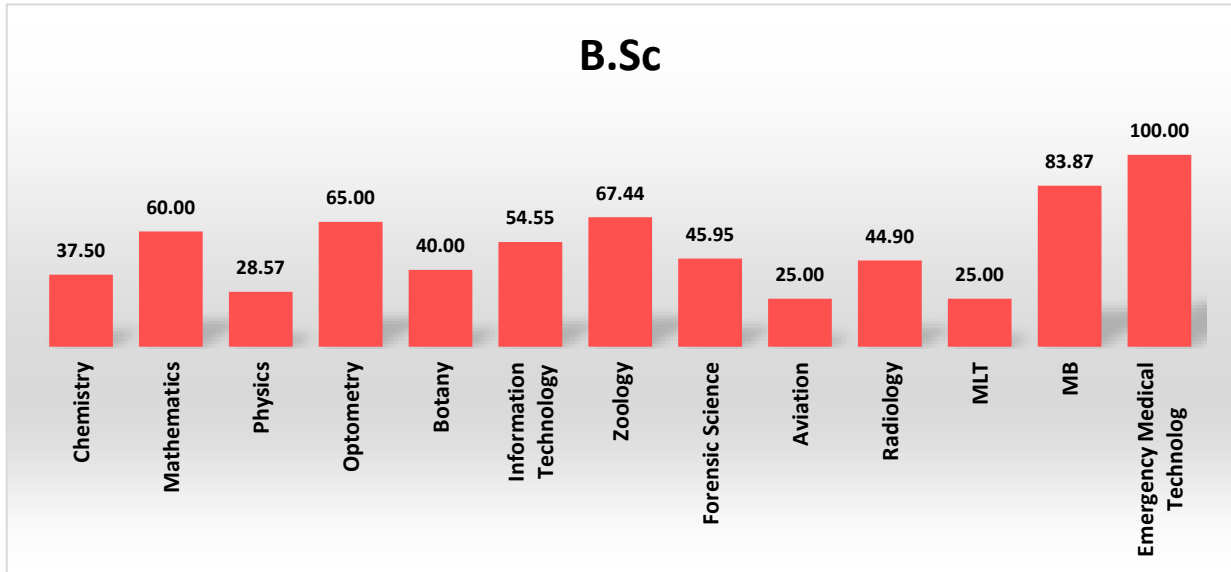
- BSc in Anesthesia Technology
- BSc Emergency Medical Technology
- BSc Operation Theatre Technology

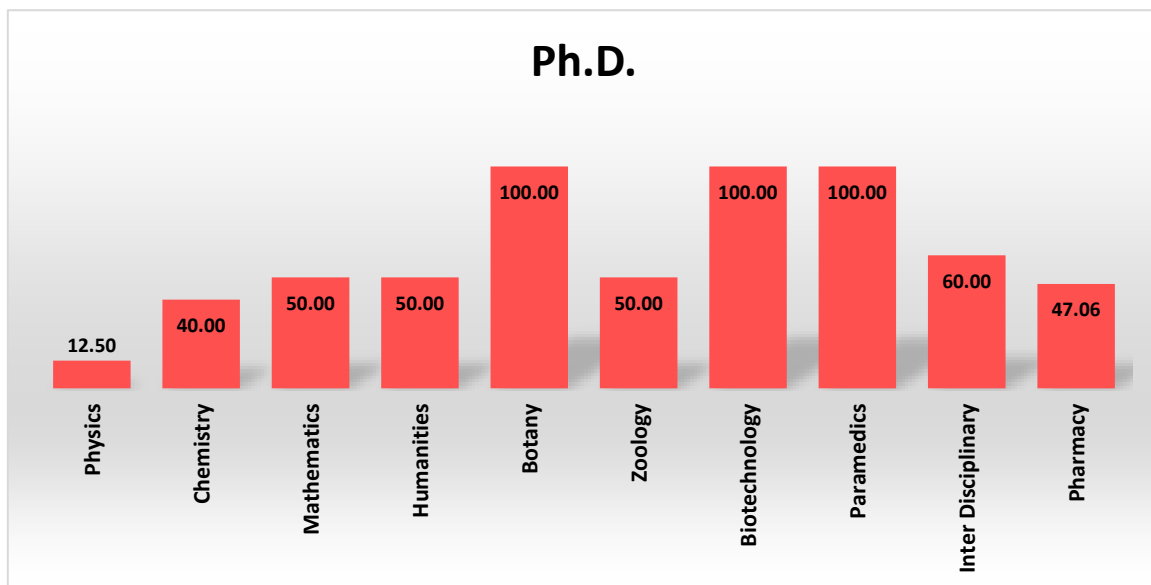
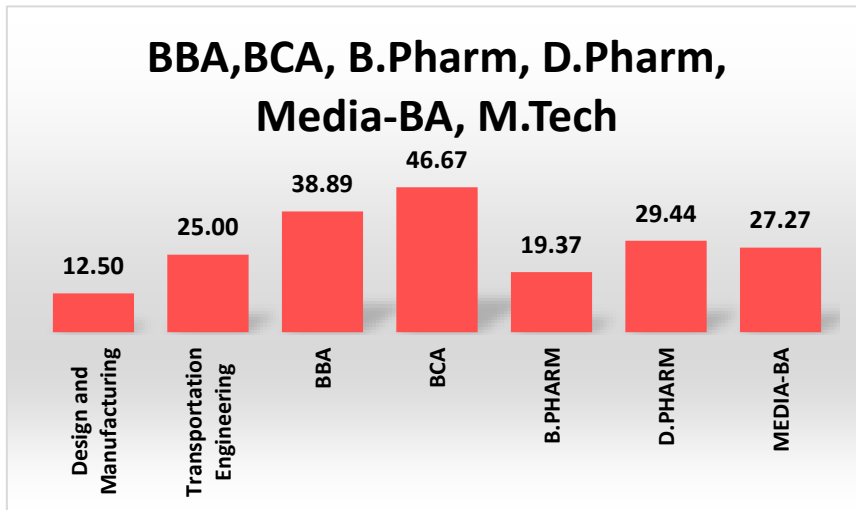
Student Enrolment

For the 2020-21 Academic year 2725 number of students were admitted in the university. It includes 412 in Diploma Programmes, 1622 in Bachelor Programmes, 632 in Master Programmes & 59 in Doctoral Programmes. The university encourages woman students to enrol and step forward towards higher education. The bar chart in figure 3 depicts the enrolment percentage of females out of total students in various programs.

Figure 3: The percentage of women students in various academic programs







Average female enrolment percentage

PhD: 60.95 %

Master's in science: 57.03%

Bachelor's in sciences: 52.13%



The female percentage in higher education and sciences is high. The Botany, Zoology, Biotechnology, Paramedics, Forensic Science, Emergency Medical Technology, and MB are professions of choice for female students in our university. The average female enrolment percentage in higher education has increased as compared to that in 2019-2020. The efforts of the university to bring gender equality is blooming from the bud. The university believes that the mother is the first teacher of a child. An educated mother can mould a child to be socially responsible and scientifically creative. Such citizens of world could bring sustainability to the society. The

university continues its efforts to bring equality in other educational programs also.

Students Graduated

The total number of students graduated during the year 2020-2021 is 1422 and number of diploma holders are 148. The figure 4 and 5 represent the graduates from each school and percentage of female graduates, respectively.

Figure 4: The total number of students graduated from various Schools

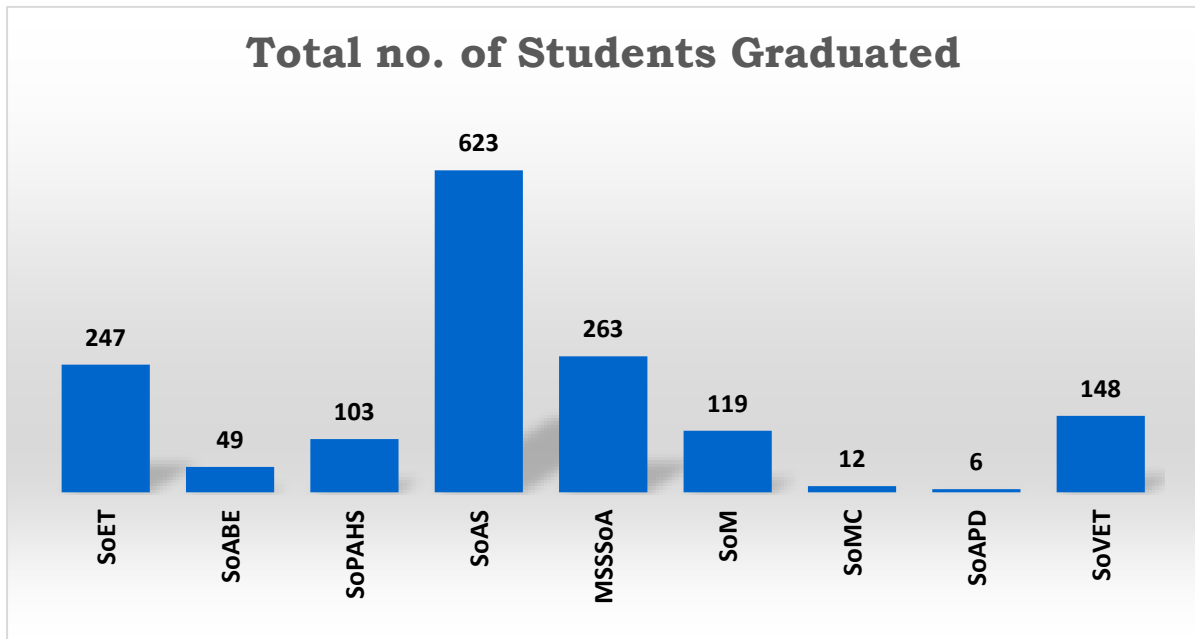
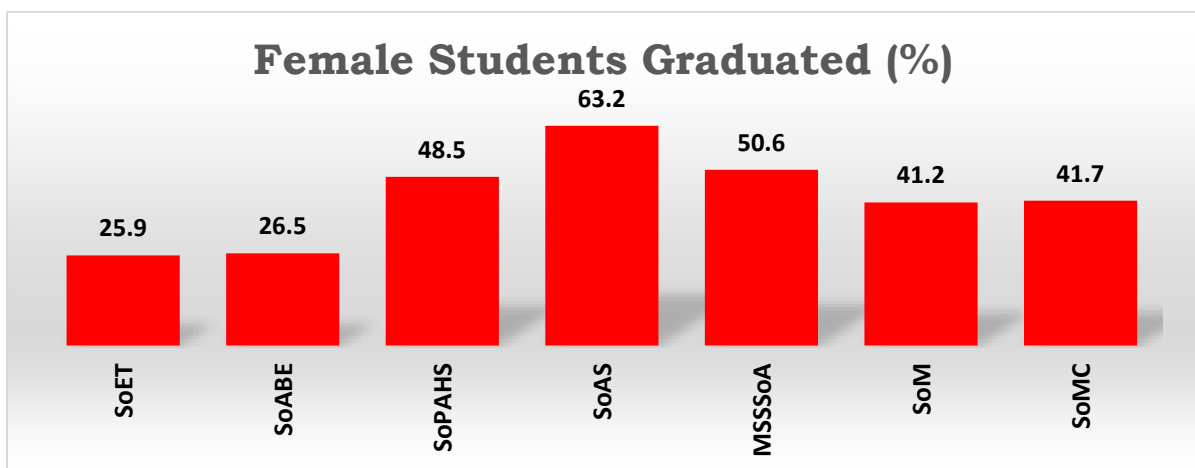


Figure 5: The female student percentage graduated out of total students graduated from various Schools



Out of total students, the percentage of female graduates is more than 50% in applied sciences and agriculture. It indicates the preference of women for particular profession. Also, the efforts of the university for gender equality are showing positive outcome.

The employability of students is majorly dependent on the quality of education provided to them by the university. The probability of the employability is increased through placement efforts of the university, also. The outcome of the relentless efforts of the Placement Team resulted in 1102 offers from 142 Companies in 2020-21. The bar chart in the figure 6 gives the glimpse of placement.

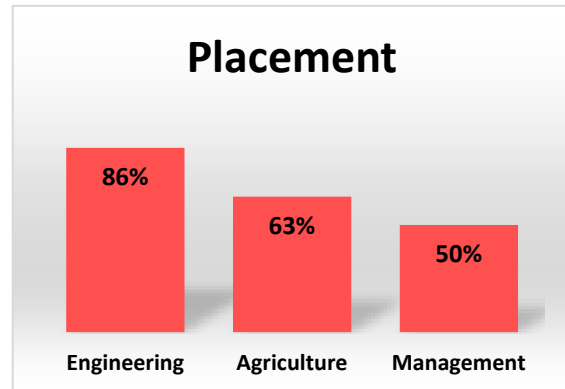


Figure 6. Percentage of student placement in various streams

The engineering student placement has doubled as compared to that in the year 2019-2020. The total number of student placement has increased by 4%. The preference of science students is more for higher education. Thus, the choice of being employed at early stage is not preferred.



Research & Consultancy

The Research and Consultancy are important activities of the University. The University encourages its Faculty and Students to undertake and solve real life social, scientific and technological problems that contribute to sustainable community, society and industry. For the purpose, in the year 2020, 27 new research centres were established. The list of research centres is as follows:

1. Center for Aquaculture and Fish Processing Technology
2. Center for Bioelectronics and Medical Systems
3. Center for Chip Making
4. Center For Communication Technologies
5. Center for Bioelectronics and Medical Systems
6. Center for Chip Making
7. Center For Communication Technologies
8. Center for Computational Mathematics
9. Center for Data Sciences and Machine Learning
10. Center for Digital Manufacturing
11. Center for Drug Design

Research Centres: 27

Patents filed: 27

Copyright: 7

Publications: 2950

Workshops/Conferences organized: 9

Earning through Consultancy:

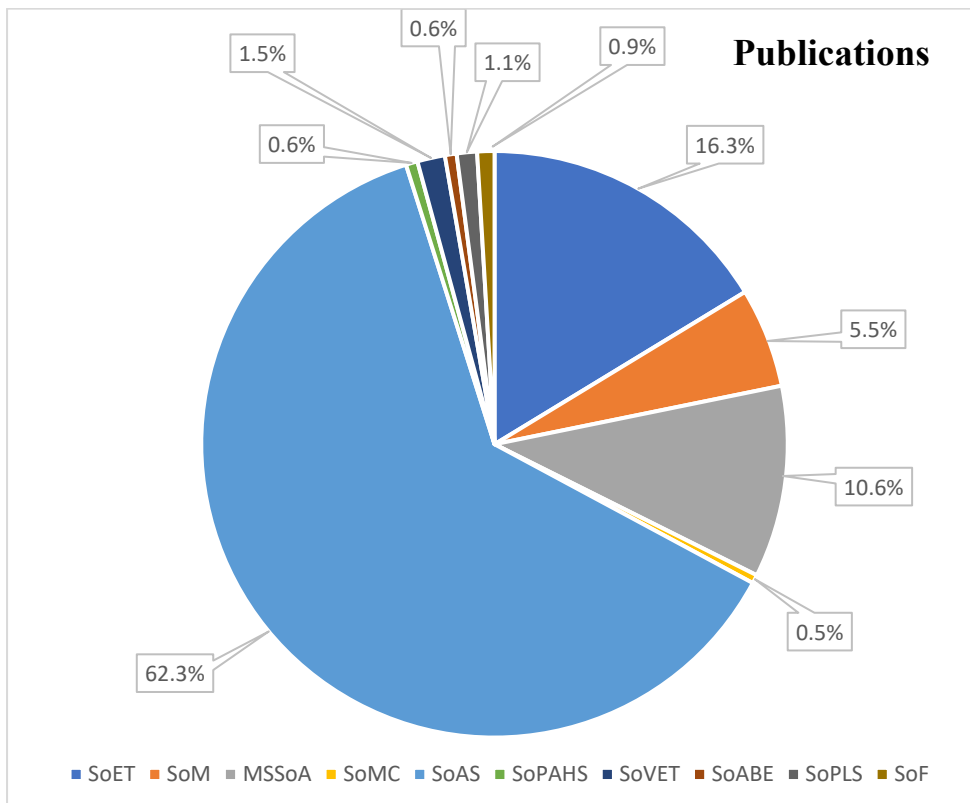
₹ 16,90,54,673/-

12. Center for EduTech & SkillsTech
13. Center for FinTech
14. Center for Genetics and Genomics
15. Center for Governance and Sustainable Societies
16. Center for Innovation and Entrepreneurship
17. Center For LASER
18. Center For Manufacturing
19. Center for Medical Diagnostics
20. Center for New Material Applications
21. Center for Phytopharma
22. Center for Smart Agriculture
23. Center for Smart Infrastructure
24. Center for Smart Mobility and Machines
25. Center for Waste to Wealth Management
26. Centre for Space and Earth Sciences
27. Smart Engineering Application

More information about research centres is available at <http://research.cutm.ac.in/>. The total number of publications is 2950. As compared to last year, there is almost 21 times increase in publications. The figure 7

summarizes the percentage of publication from each school.

Figure 7. Percentage of publications contributed by various schools.



The publication profile of the various schools is available at following websites:

<https://cutm.irins.org/faculty/index/School+of+Applied+Sciences>

<https://cutm.irins.org/faculty/index/School+of+Agricultural+and+Bio+Engineering>

<https://cutm.irins.org/faculty/index/School+of+Engineering+and+Technology>

<https://cutm.irins.org/faculty/index/School+of+Fisheries>

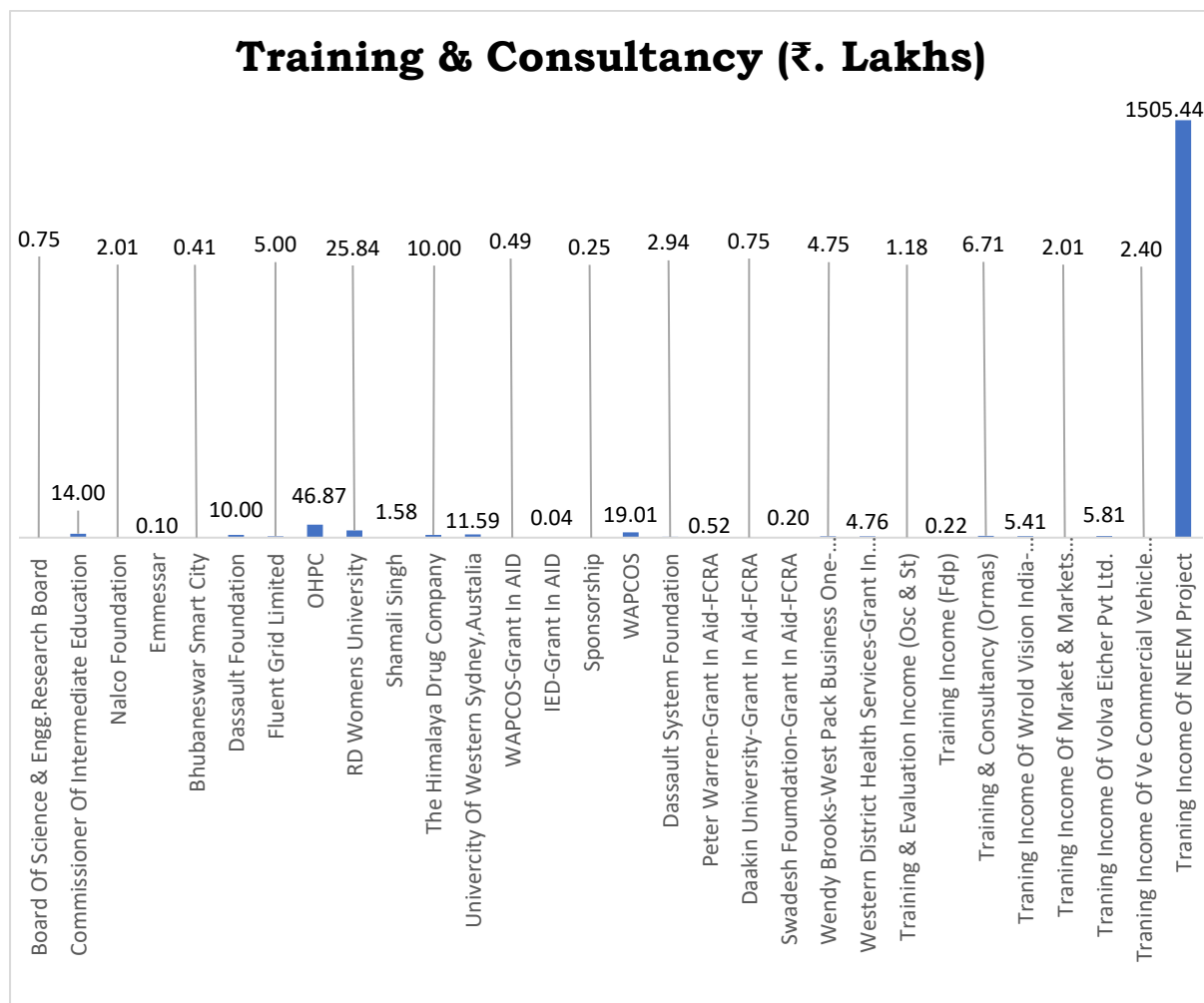
<https://cutm.irins.org/faculty/index/School+of+Paramedics+and+Allied+Health+Science>

<https://cutm.irins.org/faculty/index/School+of+Vocational+Education+Training>

<https://cutm.irins.org/faculty/index/School+of+Agriculture>

The university gives utmost importance to Consultancy and Training having academic relevance. These activities are geared towards solving real life problems faced by organisations and communities. Various schools of the university undertake the consultancy assignments to benefit the community, industry and society as a whole. During the year 2020-2021, the university provided consulting & training of worth Rs. Sixteen Crore Ninety Lakhs Fifty Four Thousand Six Hundred Seventy Three only. The bar chart in figure 8 depicts the contribution from various training and consultancy engagements.

Figure 8: The yield from various training and consultancy program for the year 2020-2021



The highest contribution to consultancy is through NEEM project.

The Faculty and Staff are the most important resource of the University. As on November 2020 the faculty strength includes 152 in Paralakhemundi campus, 123 in Bhubaneswar campus, 26 in Rayagada campus and 28 in Bolangir campus. To improve the faculty and staff resource in line with the needs of the internal and external environment, the University recruit's new faculty and staff and upgrades their competencies on a continuous basis. During the year, Faculty Development Programmes and Staff Development Programmes were organised in-

house for enhancing domain knowledge, teaching learning skill and competencies in engaging with community. The figure 9 shows the FDP and SDP organized by various schools of the university.

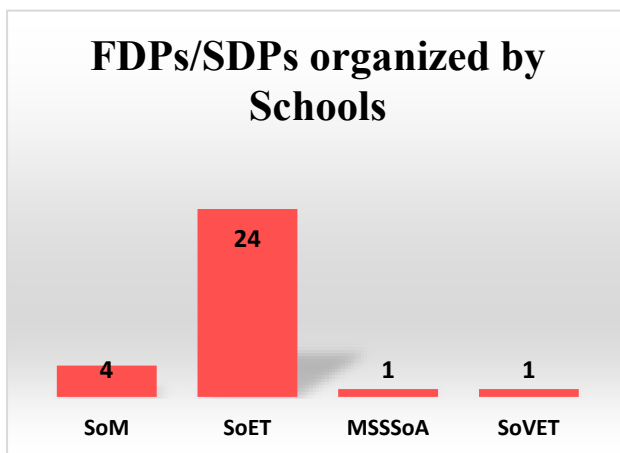


Figure 9: The Faculty development Programs (FDP) and Staff development programs (SDP) organized by various schools.

In addition to internal FDPs, external seminars, workshops and conferences were organized with experts from outside university which essentially aimed to enhance the scientific temper and perspective among the students and faculties of the university. Figure 10 depicts the number of such activities organized.

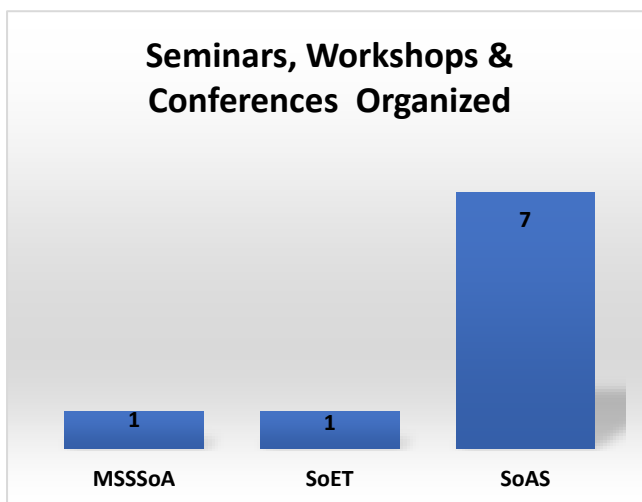


Figure 10. Number of Seminars, Workshops and Conferences organized by various schools.

School of Engineering and Technology

1. “Wide Area Situational Awareness Assessment Using Phasor Measurement Units”
Kunjabihari Swain
2. “Analysis Of Different Indoor Illumination Methods Using Daylight”
Badrinarayana Mohapatra

School of Management

3. “Evaluating Service Quality with Customer Satisfaction - A Study Of Private Sector Banks In Bhubaneswar”
Sudeshna Dutta
4. “Performance Management System in Ngos: A Case Study in Harsha Trust”
Adarsh Rath
5. “Brand Evangelism and Customer Satisfaction of Car Purchase”
Madhusmita Choudhury
6. “Diffusion of Clean Energy Products in Rural Areas of India: Case Study”
Shiv Sankar Das

School of Applied Sciences

7. “Preparation_And_Characterization_Of_Graphene-Based Polymer Composites for Improvement in Structural, Mechanical and Electrical Properties”
Suchismita Mohanty
8. “Development of Mechanical Vibration System to Influence the Metallurgical and Mechanical Properties of Mild Steel 1018 Welded Joints”
Vade Venkata Suresh

PARTNERSHIP FOR SUSTAINABLE DEVELOPMENT



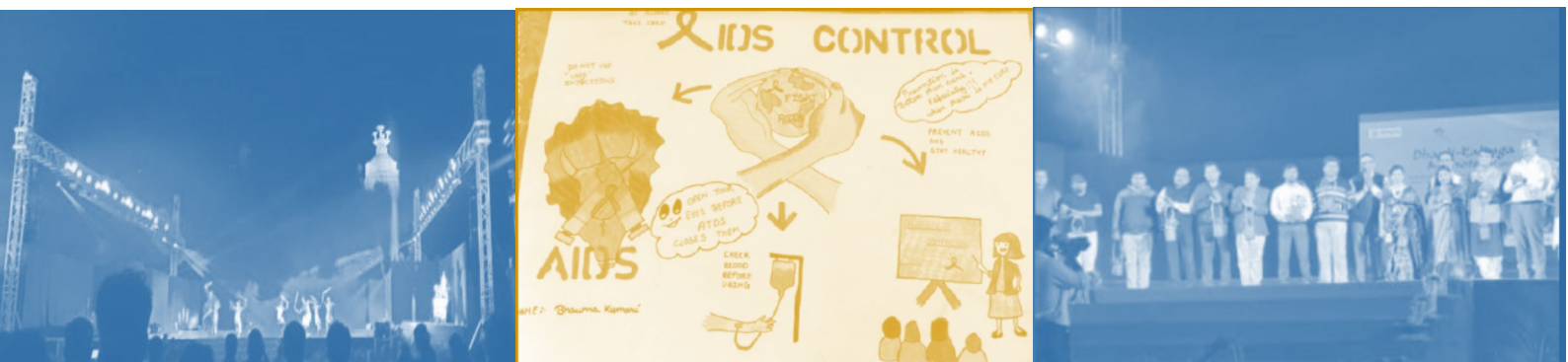
During the year the University signed MoUs with 11 institutions within the country and 3 institutions outside the country. The details are presented in Table 9.1. Our relationship with existing collaborators has been deepened and widened.

Shankaranarayana Life Sciences Llp, Bengaluru (Sn Life Sciences)	Paygate India Private Limited	IFFCO Kisan, New - Delhi
Encourage and facilitate co-operation in the fields of Biotechnology, Agriculture, Ag Engg., Microbiology and Food Sciences	Software	Research & Development
	Cognitive DLP	Wipro
	Student's Employability	Project
	Sunmoksha Power Pvt. Ltd	Vraddhi Organic Agro India Pvt. Ltd., Mathura (UP)
Skyline University Nigeria (SUN), Nigeria	Research Project	Student's Higher Education
Academic Collaboration Faculty & Student Exchange Programme	Mednutra Pvt. Ltd.	
	Project	Singapore Campus of James Cook University
Gajju Technologies Private Ltd.	Trilochan Netralaya, Budharaja, Sambalpur	Student's Higher Education
Students Loan Purpose	Student's Employability	
Catosoft Technologies Pvt Ltd	UP Education & iQuery Australia	
For internships & placements with the company clients	Student's Higher Education	

Cultural Events



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

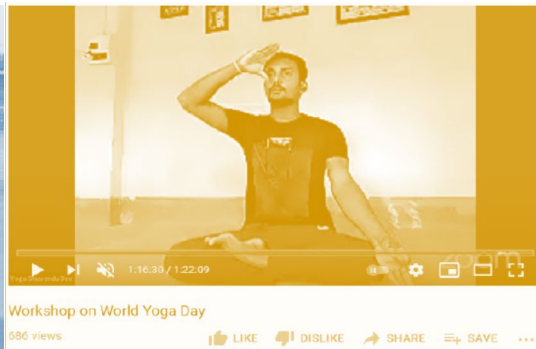


Sports Events

ଭୁବନେଶ୍ୱର ଅନ୍ତର୍ଜାତୀୟ କ୍ରିକେଟ୍ ପାଇନାଲରେ ପ୍ରଗତି-ଚାଉନ୍ କ୍ଲବ୍



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





- Any activities which benefit the community or environment.
- Plantation inside or outside CUTM.
- Visiting and helping in hospitals or orphanages.
- Blood donation camp.
- Organising Health check up camp.
- Save environment from pollution camp.
- Educational camp for population control.
- Organise disaster service camp.
- Socio-economic survey.
- Take emergency relief measures to the victims of natural disaster.
- Development of the sense of integration and friendliness.
- Volunteering with local NGOs, or coming up with your own social/environmental project in a group of students and working on it.
- Youth Red Cross activities.
- Fund raising for social/environmental projects etc.



DISTINGUISHED VISITORS



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

Table 1: Distinguished visitors during 2020-2021

Sl. No	Name of Visitors	From
1	Dr. Somasekhar Dhavala	Embibe, Bengaluru, Founder - mlsqaure.org, VitalTicks Ltd Visiting faculty - PES University
2	Prof. C.P. Paul	RRCAT, Indore
3	Dr. Somasekhar Dhavala	Embibe, Bengaluru, Founder - mlsqaure.org
4	Mr. Ajith Balakumar	Forthcode Technologies
5	Dr. B K Sahu	National Research Development Corporation
6	Dr. Amit Sreevastav	Nutrify India
7	Dr. Joseph Reddy	Principal Scientist (Agril Engg. in Farm Machinery), RARS, ANGRAU (AP)
8	Dr. Sangram Lenka	TERI-Deakin Nanobiotechnology Centre, The Energy and Resources Institute, Haryana
9	Dr. Subaj Sahoo	Professor Utkal University
10	Dr.M.V. Gupta	an eminent Fisheries Scientist
11	Mr. Damodaran Subramaniam	Managing Director, Safran Engineering Services
12	Sakhyasingh Mahapatra	MD, Sakrobotix Lab
13	Dr. Phil Burgess	CEO, Giant Corporations
14	Dr. Trilochan Mohapatra	DG ICAR
15	Prof. Usha Bajpai	Retired Professor, Dept. of Physics & CEREER, University of Lucknow, U.P.
16	Dr. Manas Ranjan Kar	M & E Specialist, PPOMU Finance Department, Govt. of Odisha

Acknowledgement

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**
*Shaping Lives...
Empowering Communities!*

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