



## Yearly Status Report - 2019-2020

### Part A

#### Data of the Institution

|   |   |
|---|---|
| <b>1. Name of the Institution</b>             | CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT       |
| Name of the head of the Institution           | Supriya Pattanayak                                      |
| Designation                                   | Vice Chancellor   |
| Does the Institution function from own campus | Yes   |
| Phone no/Alternate Phone no.                  | 06815-222999  |
| Mobile no.                                    | 9437424149  |
| Registered Email                              | registrar@cutm.ac.in                                    |
| Alternate Email                               | vc@cutm.ac.in   |
| Address                                       | AT-Village Alluri Nagar, P.O-R.Sitapur,<br>Via-Uppalada |
| City/Town                                     | Paralakhemundi  |
| State/UT                                      | Orissa  |
| Pincode                                       | 761211  |

| 2. Institutional Status  |  |      |                                       |             |             |       |       |      |                      |          |  |             |           |   |   |      |      |             |             |
|--|--|------|---------------------------------------|-------------|-------------|-------|-------|------|----------------------|----------|--|-------------|-----------|---|---|------|------|-------------|-------------|
| University   | Private  |      |                                       |             |             |       |       |      |                      |          |  |             |           |   |   |      |      |             |             |
| Type of Institution  | Co-education   |      |                                       |             |             |       |       |      |                      |          |  |             |           |   |   |      |      |             |             |
| Location   | Rural  |      |                                       |             |             |       |       |      |                      |          |  |             |           |   |   |      |      |             |             |
| Financial Status   | Self financed  |      |                                       |             |             |       |       |      |                      |          |  |             |           |   |   |      |      |             |             |
| Name of the IQAC co-ordinator/Director   | Paralakhemundi Campus: Prof. Girish Prasad Rath and Bhubaneswar Campus: Prof. K.V.D. Prakash |      |                                       |             |             |       |       |      |                      |          |  |             |           |   |   |      |      |             |             |
| Phone no/Alternate Phone no.   | +917008530115  |      |                                       |             |             |       |       |      |                      |          |  |             |           |   |   |      |      |             |             |
| Mobile no.   | 8328964815   |      |                                       |             |             |       |       |      |                      |          |  |             |           |   |   |      |      |             |             |
| Registered Email   | gprath@cutm.ac.in  |      |                                       |             |             |       |       |      |                      |          |  |             |           |   |   |      |      |             |             |
| Alternate Email  | prakash.kvd@cutm.ac.in   |      |                                       |             |             |       |       |      |                      |          |  |             |           |   |   |      |      |             |             |
| 3. Website Address   |  |      |                                       |             |             |       |       |      |                      |          |  |             |           |   |   |      |      |             |             |
| Web-link of the AQAR: (Previous Academic Year)   | <a href="https://cutm.ac.in/about/igac/">https://cutm.ac.in/about/igac/</a>                  |      |                                       |             |             |       |       |      |                      |          |  |             |           |   |   |      |      |             |             |
| <b>4. Whether Academic Calendar prepared during the year</b>   | Yes  |      |                                       |             |             |       |       |      |                      |          |  |             |           |   |   |      |      |             |             |
| if yes, whether it is uploaded in the institutional website:<br>Weblink :  | <a href="https://cutm.ac.in/academic-calendar/">https://cutm.ac.in/academic-calendar/</a>    |      |                                       |             |             |       |       |      |                      |          |  |             |           |   |   |      |      |             |             |
| 5. Accrediation Details  |  |      |                                       |             |             |       |       |      |                      |          |  |             |           |   |   |      |      |             |             |
| <table border="1"> <thead> <tr> <th rowspan="2">Cycle</th> <th rowspan="2">Grade</th> <th rowspan="2">CGPA</th> <th rowspan="2">Year of Accrediation</th> <th colspan="2">Validity</th> </tr> <tr> <th>Period From</th> <th>Period To</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>A</td> <td>3.10</td> <td>2015</td> <td>15-Nov-2015</td> <td>14-Nov-2020</td> </tr> </tbody> </table> |  |      |                                       |             |             | Cycle | Grade | CGPA | Year of Accrediation | Validity |  | Period From | Period To | 1 | A | 3.10 | 2015 | 15-Nov-2015 | 14-Nov-2020 |
| Cycle  | Grade  | CGPA | Year of Accrediation                  | Validity    |             |       |       |      |                      |          |  |             |           |   |   |      |      |             |             |
|  |  |      |                                       | Period From | Period To   |       |       |      |                      |          |  |             |           |   |   |      |      |             |             |
| 1  | A  | 3.10 | 2015                                  | 15-Nov-2015 | 14-Nov-2020 |       |       |      |                      |          |  |             |           |   |   |      |      |             |             |
| <b>6. Date of Establishment of IQAC</b>  | 01-Jul-2012  |      |                                       |             |             |       |       |      |                      |          |  |             |           |   |   |      |      |             |             |
| 7. Internal Quality Assurance System   |  |      |                                       |             |             |       |       |      |                      |          |  |             |           |   |   |      |      |             |             |
| Quality initiatives by IQAC during the year for promoting quality culture  |  |      |                                       |             |             |       |       |      |                      |          |  |             |           |   |   |      |      |             |             |
| Item /Title of the quality initiative by IQAC  | Date & Duration  |      | Number of participants/ beneficiaries |             |             |       |       |      |                      |          |  |             |           |   |   |      |      |             |             |
| Course progress and  | 05-Feb-2020  |      | 12                                    |             |             |       |       |      |                      |          |  |             |           |   |   |      |      |             |             |

|                                |                  |    |
|--------------------------------|------------------|----|
| attendance                     | 1                |    |
| IQAC coordinators Meeting      | 08-Jan-2020<br>1 | 13 |
| Course progress and attendance | 03-Dec-2019<br>1 | 14 |
| Course progress and attendance | 02-Aug-2019<br>1 | 12 |
| IQAC coordinators Meeting      | 04-Sep-2019<br>1 | 13 |
| IQAC coordinators Meeting      | 04-Oct-2019<br>1 | 14 |
| IQAC coordinators Meeting      | 06-Nov-2019<br>1 | 12 |
| <a href="#">View File</a>      |                  |    |

**8. Provide the list of Special Status conferred by Central/ State Government-UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.**

| Institution/Department/Faculty | Scheme | Funding Agency | Year of award with duration | Amount |
|--------------------------------|--------|----------------|-----------------------------|--------|
| NIL                            | NA     | NIL            | 2020<br>0                   | 0      |
| <a href="#">View File</a>      |        |                |                             |        |

|  |                           |
|--|---------------------------|
| <b>9. Whether composition of IQAC as per latest NAAC guidelines:</b>   | Yes                       |
| Upload latest notification of formation of IQAC  | <a href="#">View File</a> |
| <b>10. Number of IQAC meetings held during the year :</b>  | 22                        |
| The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website       | Yes                       |
| Upload the minutes of meeting and action taken report  | <a href="#">View File</a> |
| <b>11. Whether IQAC received funding from any of the funding agency to support its activities during the year?</b> | No                        |

**12. Significant contributions made by IQAC during the current year(maximum five bullets)**

- NAAC accreditation with 'A' Grade
- India Rankings NIRF
- Data submission for AISHE, MHRD
- Curriculum and Syllabus compilation for Science, Engineering and other Programs

No Files Uploaded !!!

**13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year**

| Plan of Action   | Achievements/Outcomes  |
|--|--|
| vi. Engaging research and production of UMBC Products.                                       | vi. Exposure to MBA & BBA students working on a live project at UMBC market linkage and distribution.                  |
| v. Student's engagement for solving community problems.                                      | v. Community action learning.  |
| iv. To know the learning of the students in each subject.                                    | iv. Students to write Learning records for each of the subjects they study during the semester.                        |
| iii. Engagement with faculty for design of curriculum for CBCS and industry specific domains | iii. Meetings were organised with faculty, alumni and industry for offering CBCS and developing domain based syllabus. |
| ii. Engaging with Stakeholders for quality enhancement                                       | ii. Coordinated the meetings with parents, training and placement cell, alumni and industry personnel                  |
| i. To conduct Academic Audit   | i. Conducted the Academic Audit for 201920 and submitted the report to the Registrar of the University                 |
| <a href="#">View File</a>  |  |

**14. Whether AQAR was placed before statutory body ?**

Yes

| Name of Statutory Body | Meeting Date |
|------------------------|--------------|
| Board of Governing     | 05-Dec-2019  |

**15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?**

Yes

Date of Visit

16-Mar-2019

**16. Whether institutional data submitted to AISHE:**

Yes

Year of Submission

2020

Date of Submission

25-Feb-2020

**17. Does the Institution have Management Information System ?**

Yes

If yes, give a brief description and a list of modules currently operational (maximum 500 words)

The University has a MIS that caters to all its needs. The key components of the MIS software include i. Faculty information ii. Student information iii. Course (Academic Planning Delivery) Management iv. Examination Management Online Test Management v. Placement Information vi. Library Management vii. Hostel Management System viii. ENotification System ix. Help Desk x. Opinion Poll System xi. Supporting departmental Information (accounts, audit, utility, residential, sports, general administration, operation and maintenance) xii. Assets' information xiii. Academic Delivery and assessment information IQAC has representation from all constituent units of the University who are responsible for data acquisition, analysis, sharing and feedback.

## Part B

### CRITERION I – CURRICULAR ASPECTS

#### 1.1 – Curriculum Design and Development

1.1.1 – Programmes for which syllabus revision was carried out during the Academic year

| Name of Programme | Programme Code                | Programme Specialization   | Date of Revision |
|-------------------|-------------------------------|--|------------------|
| BTech             | 0111,0112,0113,0115,0116,0117 | Civil,CSE,ECE,EEE,MECH,AG,PHYTOPHARM A   | 22/06/2019       |
| Mtech             | 0315,0323,0314                | Transportation Engineering,Power System & Control,Structural Engineering                   | 22/06/2019       |
| BSc               | 0415,0421,0420,0422           | Optometry,Radiology Imaging Technology,Medical Laboratory Technician,Clinical Microbiology | 22/06/2019       |
| MSc               | 0516,0514                     | Applied Clinical Microbiology,Medical Laboratory Technician,                               | 22/06/2019       |
| MBA               | 0210                          | Master of Business Administration  | 22/06/2019       |

[View File](#)

1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic

year

| Programme with Code | Programme Specialization          | Date of Introduction | Course with Code | Date of Introduction |
|---------------------|-----------------------------------|----------------------|------------------|----------------------|
| MBA                 | Master of Business Administration | 22/06/2019           | 0210             | 22/06/2019           |
| MBA                 | MBA-Development Management        | 22/06/2019           | 0211             | 22/06/2019           |
| BBA                 | Bachelor Business Administrative  | 22/06/2019           | 0912             | 22/06/2019           |

[View File](#)

## 1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

| Programme/Course | Programme Specialization | Dates of Introduction |
|------------------|--------------------------|-----------------------|
| BTech            | Phytopharma              | 22/06/2019            |

[View File](#)

1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the University level during the Academic year.

| Name of programmes adopting CBCS | Programme Specialization       | Date of implementation of CBCS/Elective Course System |
|----------------------------------|--------------------------------|---|
| BTech                            | CIVIL, CSE, ECE, MECH, EEE, AG | 01/06/2019  |
| BTech                            | Phytopharma                    | 01/06/2019  |
| BTech                            | Dairy Technology               | 01/06/2019  |
| Mtech                            | PS, ST, TE                     | 01/06/2019  |
| BSc                              | PHY, CHEM, MATH, BOT, ZOO      | 01/06/2019  |
| MSc                              | BOT, CHEM, MATH.PHY            | 01/06/2019  |
| MBA                              | MBA                            | 01/06/2019  |
| BBA                              | BBA                            | 01/06/2019  |
| BSc(Agriculture)                 | Agriculture                    | 01/06/2019  |
| BFSc                             | Fisheries                      | 01/06/2019  |
| BOptom                           | Optometry                      | 01/06/2019  |
| MSc                              | Forensic Science, Cyber Sicity | 01/06/2019  |
| BA                               | Media                          | 01/06/2019  |
| MA                               | Media                          | 01/06/2019  |
| BPharm                           | Pharmacy                       | 01/06/2019  |

## 1.3 – Curriculum Enrichment

1.3.1 – Value-added courses imparting transferable and life skills offered during the year

| Value Added Courses    | Date of Introduction | Number of Students Enrolled |
|------------------------|----------------------|-----------------------------|
| The Mind-Its mysteries | 01/07/2019           | 470                         |

|   |            |     |
|---|------------|-----|
| and conquest  |            |     |
| Understanding Personality-The Bhagavad Gita                 | 01/07/2019 | 432 |
| Understanding Leadership - The Valmiki Ramayana Perspective | 01/07/2019 | 304 |
| Organic farming   | 01/07/2019 | 167 |
| Urban gardens using Hydroponics                             | 01/07/2019 | 450 |
| Introduction to PowerBI                                     | 01/07/2019 | 428 |
| Introduction to Python                                      | 01/07/2019 | 623 |
| Food Nutrition  | 01/07/2019 | 567 |
| Behavioural Economics                                       | 01/07/2019 | 577 |
| Nutrition for Healthy life                                  | 01/07/2019 | 455 |
| <a href="#">View File</a>                                   |            |     |

### 1.3.2 – Field Projects / Internships under taken during the year

| Project/Programme Title   | Programme Specialization           | No. of students enrolled for Field Projects / Internships |
|---------------------------|------------------------------------|---|
| BTech                     | CIVIL, ECE, CSE, EEE, MECH, ST, TR | 1269  |
| BSc                       | CHEM, MATH, PHY, ZOO, BOT          | 380   |
| MSc                       | CHEM, MATH, PHY, ZOO, BOT          | 849   |
| MBA                       | MBA, DM, ABM                       | 95  |
| BBA                       | BBA                                | 195   |
| BSc(Agriculture)          | AGRICULTURE                        | 312   |
| BSc                       | Fisheries                          | 91  |
| BPharm                    | Pharmacy                           | 244   |
| <a href="#">View File</a> |                                    |   |

### 1.4 – Feedback System

#### 1.4.1 – Whether structured feedback received from all the stakeholders.

|           |     |
|-----------|-----|
| Students  | Yes |
| Teachers  | Yes |
| Employers | Yes |
| Alumni    | Yes |
| Parents   | Yes |

#### 1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

|  |
|--|
| Feedback Obtained  |
| School of Applied Science i. Faculty discussed about the lesson plan, course outline, examination pattern, evaluation components and question banks in their |

first class. ii. Projects and internship were planned to be carried out. iii. Contents and course outlines of all subjects updated in MIS. School of Management i. PGP Coordinator helped newly joined marketing faculty in preparing lesson plan. ii. Assignments submitted by BBA students, were evaluated and given marks. iii. Lesson plan, course outline, course outline, examination pattern, evaluation components and question banks were discussed and shared to 1 st Sem. Students by concerned faculty. iv. Results were analyzed. School of Engineering and Technology (SoET) i. Students were explained the CBCS syllabus. Deans and faculty cleared the doubts of students in subject selection. ii. Faculty were instructed to show the internal test copies to students after evaluation. iii. Assessment methods were explained to faculty members. iv. Remedial classes conducted for slow learners. v. Special session on GDPI and C.V writing was conducted for pre-final year students. vi. Newly joined faculty members were explained about preparation of lesson plans. They were encouraged to take help from their seniors.

## CRITERION II – TEACHING- LEARNING AND EVALUATION

### 2.1 – Student Enrolment and Profile

#### 2.1.1 – Demand Ratio during the year

| Name of the Programme | Programme Specialization   | Number of seats available | Number of Application received | Students Enrolled |
|-----------------------|----------------------------|---------------------------|--------------------------------|-------------------|
| Mtech                 | PS, ST, TRE                | 40                        | 562                            | 29                |
| BPharm                | PHARMACY                   | 135                       | 450                            | 124               |
| BSc                   | OPT.RIT, MLT, CM           | 120                       | 360                            | 56                |
| BTech                 | CIVIL, CSE, ECE, EEE, MECH | 525                       | 3750                           | 513               |

[View File](#)

### 2.2 – Catering to Student Diversity

#### 2.2.1 – Student - Full time teacher ratio (current year data)

| Year | Number of students enrolled in the institution (UG) | Number of students enrolled in the institution (PG) | Number of fulltime teachers available in the institution teaching only UG courses | Number of fulltime teachers available in the institution teaching only PG courses | Number of teachers teaching both UG and PG courses |
|------|---|---|---|---|--|
| 2019 | 1489  | 611   | 227   | 85  | 312  |

### 2.3 – Teaching - Learning Process

#### 2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

| Number of Teachers on Roll | Number of teachers using ICT (LMS, e-Resources) | ICT Tools and resources available | Number of ICT enabled Classrooms | Number of smart classrooms | E-resources and techniques used |
|----------------------------|---|-----------------------------------|----------------------------------|----------------------------|---------------------------------|
| 312                        | 312   | Null                              | 72                               | 214                        | Null                            |

[View File of ICT Tools and resources](#)

No file uploaded.

#### 2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

i. For personal counseling, the university adopts a mentor and mentee system. For every 15 to 20 students a



teacher acts as a mentor to counsel and guide the students in his/her chosen career. ii. Student specific career plan and student specific course completion plan are developed and monitored by faculty mentors. iii. Regular review of student mentorship by the Senior Management Team members is taken up. iv. Regular career counseling and grooming by external resource persons are undertaken. v. Life skill development through regular involvement in culture, sports and socially responsible activities with the communities inside and outside the university are undertaken. vi. Remedial classes organized for students to clear the backlog papers. vii. Introduced Japanese Language training to enhance career opportunities and projects for students. viii. Counselling cell introduced for addressing mental health issues. ix. Orientation of students through campus tour to various industry and skill level done at the beginning of the programme. x. Dissemination of information regarding the Academic and Examination Rules is carried out during induction programs for the benefit of newly admitted students. xi. Involvement of students in life-skill development, community engagement, training and placement process is sought through student specific competency gap analysis, feedback, mentoring and counseling. xii. Mobilizing students for Anti – ragging registration.

|  |                             |                       |
|--|-----------------------------|-----------------------|
| Number of students enrolled in the institution | Number of fulltime teachers | Mentor : Mentee Ratio |
| 2100   | 312                         | 1:7                   |

## 2.4 – Teacher Profile and Quality

### 2.4.1 – Number of full time teachers appointed during the year

| No. of sanctioned positions | No. of filled positions | Vacant positions | Positions filled during the current year | No. of faculty with Ph.D |
|-----------------------------|-------------------------|------------------|--|--------------------------|
| 312                         | 312                     | Nil              | 2019                                     | 176                      |

### 2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year )

| Year of Award | Name of full time teachers receiving awards from state level, national level, international level | Designation         | Name of the award, fellowship, received from Government or recognized bodies   |
|---------------|---|---------------------|--|
| 2019          | Prof. Anita Patra   | Professor           | Received award Prakruti Mitra from Govt. Of Odisha, Forest Environmental Department on 5th June 2019 for contribution towards Nature Conservation Environment Safety.      |
| 2019          | Dr. Prajna Pani   | Professor           | Session Chaired by Dr. Prajna Pani in the 2019 WEI International Conference on Humanities Social Sciences: Harvard Faculty Club, Boston, USA, 29th July - 2nd August 2019. |
| 2019          | Dr.Koustav Kumar Panda  | Assistant Professor | Received the first travel award for participation and presentation   |

|                           |                              |                     |   |
|---------------------------|------------------------------|---------------------|---|
| 2019                      | Dr. Preetha Bhadra           | Assistant Professor | Best Innovator Award  |
| 2019                      | Dr. Sangram Keshari Swain    | Associate Professor | Best Nodal Officer for City Changer Lab Initiative  |
| 2020                      | Dr. Umakanta Nayak           | Associate Professor | Invited as a resource person to Induction Training of OT AS (4th Batch Direct Recruit) Class II Officers at MDRAFM              |
| 2020                      | Prof. Ambika Mishra          | Associate Professor | Achievers excellence award 2020   |
| 2020                      | Prof. Prafulla Kumar Panda   | Assistant Professor | Coordinated the Certificates of course on Understanding of Coastal ocean processes using Remote Sensing and Numerical Modelling |
| 2020                      | Mr.Chittaranjan Routray      | Assistant Professor | Academic Excellence Award   |
| 2020                      | Prof. Dipankar Bhattacharyay | Professor           | Tie with University of Quebec at Chicoutimi, Canada, related to technology transfer   |
| <a href="#">View File</a> |                              |                     |   |

## 2.5 – Evaluation Process and Reforms

2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

| Programme Name   | Programme Code | Semester/ year | Last date of the last semester-end/ year-end examination | Date of declaration of results of semester-end/ year- end examination |
|------------------|----------------|----------------|--|---|
| BBA              | 9              | 2,4            | 19/06/2020   | 04/07/2020  |
| BBA              | 9              | 6              | 21/05/2020   | 02/06/2020  |
| BSc              | 4              | 2,4            | 01/06/2020   | 16/06/2020  |
| BSc              | 4              | 6              | 16/05/2020   | 18/05/2020  |
| BSc(Agriculture) | 4              | 2,4            | 26/05/2020   | 12/06/2020  |
| BSc(Agriculture) | 4              | 6              | 31/05/2020   | 12/06/2020  |
| BTech            | 1              | 2,4            | 30/05/2020   | 14/06/2020  |

|                           |   |   |            |            |
|---------------------------|---|---|------------|------------|
| BTech                     | 1 | 6 | 04/06/2020 | 16/06/2020 |
| BTech                     | 1 | 8 | 16/05/2020 | 28/05/2020 |
| MBA                       | 2 | 2 | 07/06/2020 | 22/06/2020 |
| <a href="#">View File</a> |   |   |            |            |

2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

| Number of complaints or grievances about evaluation | Total number of students appeared in the examination | Percentage |
|---|--|------------|
| 62  | 1861   | 3.01       |

## 2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

|   |
|---|
| <a href="https://cutm.ac.in">https://cutm.ac.in</a> |
|---|

2.6.2 – Pass percentage of students

| Programme Code            | Programme Name | Programme Specialization      | Number of students appeared in the final year examination | Number of students passed in final year examination | Pass Percentage |
|---------------------------|----------------|-------------------------------|---|---|-----------------|
| 16                        | BPharm         | PHARMACY                      | 61  | 53  | 87              |
| 5                         | MSc            | MB                            | 19  | 19  | 100             |
| 4                         | BSc            | OPTOMETRY                     | 14  | 11  | 79              |
| 4                         | BSc            | RIT                           | 11  | 11  | 100             |
| 2                         | MBA            | MBA                           | 33  | 23  | 70              |
| 9                         | BBA            | BBA                           | 54  | 42  | 78              |
| 5                         | MSc            | Agronomy                      | 3   | 1   | 33              |
| 4                         | BSc            | PHY, CHEM, MATH, BOT, ZOO     | 196   | 175   | 89              |
| 3                         | Mtech          | SE, TE, PSE                   | 26  | 20  | 77              |
| 1                         | BTech          | CSE, ECE, EE, CIVIL, MECH, AG | 650   | 556   | 86              |
| <a href="#">View File</a> |                |                               |   |   |                 |

## 2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

|   |
|---|
| <a href="https://cutm.ac.in/about/igac">https://cutm.ac.in/about/igac</a> |
|---|

## CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

### 3.1 – Promotion of Research and Facilities

3.1.1 – Teachers awarded National/International fellowship for advanced studies/ research during the year

| Type | Name of the teacher awarded the fellowship | Name of the award | Date of award | Awarding agency |
|------|--|-------------------|---------------|-----------------|
|      |  |                   |               |                 |

|                           |                           |                                   |            |                                      |
|---------------------------|---------------------------|-----------------------------------|------------|--------------------------------------|
| International             | Gayatree Acharya          | York University, Toronto, Cannada | 10/12/2019 | York University, Toronto, Cannada    |
| International             | Sangram Keshari Swain     | Sponsored Program, CUTM           | 29/08/2019 | Western Sydney University, Australia |
| International             | Durga Prasad Padhi        | Sponsored Program, CUTM           | 29/08/2019 | Western Sydney University, Australia |
| International             | Satya Prasad Nanda        | Sponsored Program, CUTM           | 29/08/2019 | Western Sydney University, Australia |
| International             | Mir Sadat Ali             | Sponsored Program, CUTM           | 29/08/2019 | Western Sydney University, Australia |
| International             | Sagar Maitra              | Sponsored Program, CUTM           | 29/08/2019 | Western Sydney University, Australia |
| International             | Dinkar Jagannath Gaikward | Sponsored Program, CUTM           | 29/08/2019 | Western Sydney University, Australia |
| <a href="#">View File</a> |                           |                                   |            |                                      |

3.1.2 – Number of JRFs, SRFs, Post Doctoral Fellows, Research Associates and other fellows in the Institution enrolled during the year

| Name of Research fellowship | Duration of the fellowship | Funding Agency   |
|-----------------------------|----------------------------|------------------|
| Tommy Quick                 | 21                         | Australian Grant |
| Hosking Emily Louise        | 21                         | Australian Grant |
| Quick Thomas Michael Fisken | 21                         | Australian Grant |
| Casement Mia Anne           | 21                         | Australian Grant |
| Carina Mammone              | 21                         | Australian Grant |
| Anastasia Rose Lee          | 21                         | Australian Grant |
| Amanda Lee Ashby            | 21                         | Australian Grant |
| Ms. Brenna Ferguson         | 21                         | Australian Grant |
| Mayura Ashok                | 21                         | Australian Grant |
| Ms. Ellenor Velez           | 21                         | Australian Grant |
| <a href="#">View File</a>   |                            |                  |

### 3.2 – Resource Mobilization for Research

3.2.1 – Research funds sanctioned and received from various agencies, industry and other organisations

| Nature of the Project | Duration | Name of the funding | Total grant | Amount received |
|-----------------------|----------|---------------------|-------------|-----------------|
|-----------------------|----------|---------------------|-------------|-----------------|

|                                      |   | agency                                 | sanctioned | during the year |
|--------------------------------------|---|--|------------|-----------------|
| Projects sponsored by the University | 0 | CUTM                                   | 6977000    | 6977000         |
| Projects sponsored by the University | 0 | CUTM                                   | 7869351    | 7869351         |
| Industry sponsored Projects          | 0 | Dassault Systemes                      | 900000     | 900000          |
| Industry sponsored Projects          | 0 | RSB Global Dharward                    | 1445290    | 1445290         |
| Industry sponsored Projects          | 0 | Nutraceutical, Food Flavour Industries | 15892177   | 15892177        |
| Industry sponsored Projects          | 0 | Central Tool Room Training Center      | 267660     | 267660          |
| Industry sponsored Projects          | 0 | VEWS                                   | 150000     | 150000          |
| Industry sponsored Projects          | 0 | Harsha Trust                           | 50000      | 50000           |
| Industry sponsored Projects          | 0 | ADEME, France                          | 410000     | 410000          |
| <a href="#">View File</a>            |   |  |            |                 |

### 3.3 – Innovation Ecosystem

3.3.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

| Title of workshop/seminar  | Name of the Dept. | Date       |
|--|-------------------|------------|
| Hi-Tech Horticulture   | MSSSoA            | 13/07/2019 |
| Nanoparticles use in Aquaculture   | MSSSoA            | 16/08/2019 |
| Soft computing techniques for design of experiments                          | ALL DEPT          | 12/07/2019 |
| Workshop on filmmaking   | SoMC              | 19/08/2019 |
| Bio-inspired computational techniques and tools for engineering applications | SoET              | 29/08/2019 |
| Cultivation of Straw Mushroom  | MSSSoA            | 31/08/2019 |
| Financial analysis and planning - SoM  | SoM               | 28/09/2019 |

|   |          |            |
|---|----------|------------|
| Microtomy Technique -<br>Zoology Dept.                | SoAS     | 26/09/2019 |
| Apparel Production<br>Marketing                       | GT Tech. | 12/11/2019 |
| Emergency Medical<br>Technician - Basic /<br>Advanced | SoPAHS   | 12/11/2019 |
| <a href="#">View File</a>                             |          |            |

### 3.3.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

| Title of the innovation   | Name of Awardee           | Awarding Agency  | Date of award | Category |
|---|---------------------------|--|---------------|----------|
| Ratcheting<br>Pedagogy for<br>FDP   | Dr. Anita<br>Patra        | Copyright<br>Office, Govt.<br>of India                     | 14/08/2020    | Teacher  |
| A Bio-<br>Pesticide<br>Composition<br>Based on<br>Peppermint<br>Extract and its<br>Preparation<br>Method Thereof                | Preetha<br>Bhadra         | Ministry of<br>Commerce and<br>Industry, Govt.<br>of India | 17/07/2020    | Teacher  |
| Machine<br>Learning Based<br>Computer<br>Implemented<br>Method For<br>Managing<br>Production From<br>A Hydrocarbon<br>Reservoir | Dr. Sujata<br>Chakravarty | Ministry of<br>Commerce and<br>Industry, Govt.<br>of India | 25/10/2019    | Teacher  |
| Low Smoke<br>Portable<br>Combustion<br>Furnace  | Shiv Sankar<br>Das        | Ministry of<br>Commerce and<br>Industry, Govt.<br>of India | 07/06/2019    | Teacher  |
| Automatic<br>control system<br>for water<br>sprinkling and<br>ventilation   | Sangram<br>Keshari Swain  | Ministry of<br>Commerce and<br>Industry, Govt.<br>of India | 07/06/2019    | Teacher  |
| <a href="#">View File</a>   |                           |  |               |          |

### 3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

| Incubation<br>Center   | Name                  | Sponsored By | Name of the<br>Start-up                                 | Nature of Start-<br>up | Date of<br>Commencement |
|------------------------|-----------------------|--------------|---|------------------------|-------------------------|
| Centurion<br>Fab       | Product<br>Innovation | CIE          | Center for<br>Innovators<br>and Entrepre<br>neurs (CIE) | Technologi<br>cal      | 18/07/2019              |
| Centurion<br>Woodworks | Product<br>Innovation | CIE          | Center for<br>Innovators<br>and Entrepre                | Technologi<br>cal      | 18/07/2019              |

|                           |                    |     |  |                   |            |
|---------------------------|--------------------|-----|--|-------------------|------------|
| Centurion Gram Sanjeevani | Service Innovation | CIE | neurs(CIE)<br>Center for Innovators and Entrepreneurs(CIE) | Non-Technological | 06/08/2019 |
| Sangam Designs            | Product Innovation | CIE | Center for Innovators and Entrepreneurs(CIE)               | Non-Technological | 14/08/2019 |
| <a href="#">View File</a> |                    |     |  |                   |            |

### 3.4 – Research Publications and Awards

#### 3.4.1 – Ph. Ds awarded during the year

| Name of the Department                              | Number of PhD's Awarded |
|---|-------------------------|
| Management, CSE, Mechanical, Chemistry, Mathematics | 12                      |

#### 3.4.2 – Research Publications in the Journals notified on UGC website during the year

| Type                      | Department | Number of Publication | Average Impact Factor (if any) |
|---------------------------|------------|-----------------------|--------------------------------|
| International             | SoAS       | 1                     | 1.09                           |
| International             | SoET       | 1                     | 1.50                           |
| <a href="#">View File</a> |            |                       |                                |

#### 3.4.3 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

| Department                | Number of Publication |
|---------------------------|-----------------------|
| MSSSoA                    | 297                   |
| SoMC                      | 15                    |
| SoM                       | 165                   |
| SoET                      | 549                   |
| SoAS                      | 1823                  |
| <a href="#">View File</a> |                       |

#### 3.4.4 – Patents published/awarded/applied during the year

| Patent Details  | Patent status | Patent Number | Date of Award |
|---|---------------|---------------|---------------|
| Automatic control system for water sprinkling and ventilation                                 | Published     | 201731043327  | 07/06/2019    |
| Smart monitoring system of soil moisture  | Published     | 201731043328  | 07/06/2019    |
| Machine Learning Based Computer Implemented Method For Managing Production From A Hydrocarbon | Published     | 201941040224  | 25/10/2019    |

|  |           |              |            |
|--|-----------|--------------|------------|
| Reservoir  |           |              |            |
| Robotic Service System For Railway Coaches (Swab Railways) | Published | 201931004151 | 19/06/2020 |
| <a href="#">View File</a>                                  |           |              |            |

3.4.5 – Bibliometrics of the publications during the last academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

| Title of the Paper  | Name of Author  | Title of journal                                      | Year of publication | Citation Index | Institutional affiliation as mentioned in the publication | Number of citations excluding self citation |
|---|---|---|---------------------|----------------|---|---|
| A base line assesment, threats and conservation measures to Ophidians at Rukhi hill forest, Nayagarh, Odisha, India         | Laxmi Prasad Rath and Siba Prasad Parida                        | International Research Journal of biological sciences | 2019                | 1              | YES   | Null  |
| Effect of sex on biochemical, cytometric and haematological parameters of mallard duck, Anas platyrhynchos (Linnaeus, 1758) | Gayatri Acharya, Subhashree Rout, Swayamprava Das, Arpita Sahoo | Comparative Clinical Pathology                        | 2019                | 1              | YES   | Null  |
| <a href="#">View File</a>   |   |   |                     |                |   |   |

3.4.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

| Title of the Paper | Name of Author | Title of journal | Year of publication | h-index | Number of citations excluding self citation | Institutional affiliation as mentioned in the publication |
|--------------------|----------------|------------------|---------------------|---------|---|---|
| Null               | Null           | Null             | 2019                | 8       | Null  | Null  |
| No file uploaded.  |                |                  |                     |         |   |   |

3.4.7 – Faculty participation in Seminars/Conferences and Symposia during the year

| Number of Faculty           | International | National | State | Local |
|-----------------------------|---------------|----------|-------|-------|
| Attended/Seminars/Workshops | 11            | 218      | 14    | Null  |
| <a href="#">View File</a>   |               |          |       |       |



### 3.5 – Consultancy

#### 3.5.1 – Revenue generated from Consultancy during the year

| Name of the Consultan(s) department | Name of consultancy project                          | Consulting/Sponsoring Agency               | Revenue generated (amount in rupees) |
|-------------------------------------|--|--|--------------------------------------|
| Mechanical                          | OSFDC/ SC-ST DEPT/Minorities                         | Skill development Program                  | 8796387                              |
| Mechanical                          | OSDA RMT   | Placement linked Skill development program | 3085601                              |
| Agriculture                         | Farmers training                                     | Atal Project                               | 195801078                            |
| Management                          | State Rural Livelihoods Mission (SRLM -Odisha-ORMAS) | Skill Competency Assessment                | 25000000                             |

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#### 3.5.2 – Revenue generated from Corporate Training by the institution during the year

| Name of the Consultan(s) department | Title of the programme | Agency seeking / training | Revenue generated (amount in rupees) | Number of trainees |
|-------------------------------------|------------------------|---------------------------|--------------------------------------|--------------------|
| RSB GLOBAL, TANGI                   | Major Project          | RSB GLOBAL, TANGI         | 1382941                              | 0                  |

[View File](#)

### 3.6 – Extension Activities

#### 3.6.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

| Title of the activities                             | Organising unit/agency/ collaborating agency | Number of teachers participated in such activities | Number of students participated in such activities |
|---|--|--|--|
| Dhauri-Kalinga Mahotsav:                            | Odisha Dance Academy                         | 2  | 30   |
| Marathon organised by Tata Steel and Govt of Odisha | Tata Steel                                   | 5  | 30   |
| Blood donation camp                                 | Red Cross                                    | 30   | 330  |

[View File](#)

#### 3.6.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

| Name of the activity                  | Award/Recognition                                  | Awarding Bodies | Number of students Benefited |
|---------------------------------------|--|-----------------|------------------------------|
| Blood Donation                        | Highest Numbers of voluntary Blood donation        | Govt. Of Odisha | 145                          |
| Awareness Program on Managing E-Waste | Highest Number of Awareness Programs Conducted" by | Govt. Of Odisha | 132                          |

Centurion  
University,  
Bhubaneswar campus  
on the theme  
Managing E-Waste

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3.6.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

| Name of the scheme   | Organising unit/Agency/collaborating agency | Name of the activity                            | Number of teachers participated in such activities | Number of students participated in such activities |
|--|---|---|--|--|
| World Red Cross Day  | Govt. of Odisha                             | Rally for Awareness the People                  | 4  | 150  |
| Aids Awareness   | Govt. of Odisha                             | Rally for Awareness the People                  | 2  | 48   |
| World Red Cross Day  | Govt. of Odisha                             | Rally for Awareness the People                  | 6  | 24   |
| National Street Children Day                                 | Govt. of Odisha                             | Rally for Awareness the People                  | 3  | 45   |
| Jayanti Divas of Iron Man of India, Sardar Ballav Bhai Patel | Govt. of Odisha                             | Cultural and sports programs celebration        | 12   | 33   |
| National Education Day                                       | Govt. of Odisha                             | Rally for Awareness the People to Run for Unity | 25   | 22   |
| World Diabetics Day  | Govt. of Odisha                             | Essay Competition among the students            | 15   | 36   |
| World AIDS Day   | Govt. of Odisha                             | Rally for Awareness the People                  | 7  | 52   |

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### 3.7 – Collaborations

3.7.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

| Nature of activity                           | Participant | Source of financial support | Duration |
|--|-------------|-----------------------------|----------|
| For setting up a state resource organization | 2           | 0                           | 1        |
| Software Testing and Automation Training     | 97          | 0                           | 9        |

|   |    |   |   |
|---|----|---|---|
| Faculties are train in the recent advance technology. | 15 | 0 | 5 |
| Cyber security Domain training skill are given.       | 40 | 0 | 2 |
| <a href="#">View File</a>                             |    |   |   |

3.7.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

| Nature of linkage  | Title of the linkage   | Name of the partnering institution/ industry /research lab with contact details | Duration From | Duration To | Participant |
|--|--|---|---------------|-------------|-------------|
| MOU WITH CENTRE FOR COMMUNITY DEVELOPMENT (CCD), PARAL AKHEMUNDI | For Financial Contribution   | A. Jagannadha Raju, CCD with Dr. S. P. Nanda, CUTM                              | 09/05/2019    | 09/05/2020  | 2           |
| MOU WITH NSDL DATABASE MANAGEMENT LTD.(NAD)                      | Deptt. of Biochemistry , Biotechnol ogy Crop Physiology Dept. of Plant Pathology, MSSSoA is engaged in analytical testing services | Dr. Anita Patra, Registrar, CUTM, With Nehal Shah Vice President NSDL           | 23/01/2019    | 23/01/2020  | 0           |
| <a href="#">View File</a>  |  |   |               |             |             |

3.7.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

| Organisation  | Date of MoU signed | Purpose/Activities  | Number of students/teachers participated under MoUs |
|---|--------------------|---|---|
| MOU with Central Tuber Crops Research Institute (CTCRI) with MSSSoA | 31/07/2019         | For facilitating Students Training, Internship/Post Graduate Ph.D. Research/Scientists Exposure Involvement | 6   |
| MoU with Prime University, Dhaka , Bangladesh                       | 06/11/2019         | For Student Development Exchange Programme, Faculty Development Programme,                                  | Nil   |

Training, Setting up laboratories, Center of Excellence, Go to market in 100 days, Running of academic courses, Research project work and identified product development

[View File](#)

## CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

### 4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

| Budget allocated for infrastructure augmentation | Budget utilized for infrastructure development |
|--|--|
| 1700   | 1618   |

4.1.2 – Details of augmentation in infrastructure facilities during the year

| Facilities                     | Existing or Newly Added |
|--------------------------------|-------------------------|
| Campus Area                    | Existing                |
| Class rooms                    | Existing                |
| Laboratories                   | Existing                |
| Seminar Halls                  | Existing                |
| Classrooms with LCD facilities | Existing                |

[View File](#)

### 4.2 – Library as a Learning Resource

4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

| Name of the ILMS software | Nature of automation (fully or partially) | Version | Year of automation |
|---------------------------|---|---------|--------------------|
| I cloud EMS (In House)    | Fully                                     | Null    | 2012               |

4.2.2 – Library Services

| Library Service Type | Existing |        | Newly Added |       | Total    |        |
|----------------------|----------|--------|-------------|-------|----------|--------|
|                      |          |        |             |       |          |        |
| Text Books           | 85123    | 33148  | 405         | 250   | 85528    | 33398  |
| Reference Books      | 25831    | 162747 | 300         | 416   | 26131    | 163163 |
| e-Books              | Null     | Null   | 3400        | 13570 | 3400     | 13570  |
| Journals             | 206      | 516    | 104         | 289   | 310      | 805    |
| e-Journals           | 500      | 1697   | 472         | 1432  | 972      | 3129   |
| Digital Database     | 17607617 | 4848   | Null        | 13570 | 17607617 | 18418  |

|                   |      |     |     |     |      |     |
|-------------------|------|-----|-----|-----|------|-----|
| CD & Video        | 3067 | Nil | 233 | Nil | 3300 | Nil |
| No file uploaded. |      |     |     |     |      |     |

4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

| Name of the Teacher       | Name of the Module                        | Platform on which module is developed | Date of launching e-content |
|---------------------------|---|---------------------------------------|-----------------------------|
| Mrs. Saubhagyalaxmi Singh | Differential Equations and Linear Algebra | Wordpress                             | 26/05/2020                  |
| MR.Balaji Padhy           | Laplace Fourier Transforms                | Wordpress                             | 26/05/2020                  |
| Mr. Sasi Bhusan Padhi     | Complex Analysis Numerical Methods        | Wordpress                             | 26/05/2020                  |
| Dr.Banitamani Mallik      | Probability Statistics                    | Wordpress                             | 26/05/2020                  |
| <a href="#">View File</a> |   |                                       |                             |

#### 4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

| Type     | Total Computers | Computer Lab | Internet | Browsing centers | Computer Centers | Office | Departments | Available Bandwidth (MBPS/ GBPS) | Others |
|----------|-----------------|--------------|----------|------------------|------------------|--------|-------------|----------------------------------|--------|
| Existing | 1362            | 20           | 1        | 0                | 0                | 0      | 0           | 4                                | 0      |
| Added    | 20              | 1            | 0        | 0                | 0                | 0      | 0           | 155                              | 0      |
| Total    | 1382            | 21           | 1        | 0                | 0                | 0      | 0           | 159                              | 0      |

4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

|                |
|----------------|
| 159 MBPS/ GBPS |
|----------------|

4.3.3 – Facility for e-content

| Name of the e-content development facility | Provide the link of the videos and media centre and recording facility    |
|--|---|
| Differential Equations and Linear Algebra  | <a href="http://courseware.cutm.ac.in/">http://courseware.cutm.ac.in/</a> |
| Laplace Fourier Transforms                 | <a href="http://courseware.cutm.ac.in/">http://courseware.cutm.ac.in/</a> |
| Complex Analysis Numerical Methods         | <a href="http://courseware.cutm.ac.in/">http://courseware.cutm.ac.in/</a> |
| Discrete Mathematics                       | <a href="http://courseware.cutm.ac.in/">http://courseware.cutm.ac.in/</a> |
| Probability Statistics                     | <a href="http://courseware.cutm.ac.in/">http://courseware.cutm.ac.in/</a> |
| Calculus                                   | <a href="http://courseware.cutm.ac.in/">http://courseware.cutm.ac.in/</a> |
| Mechanics for Engineers                    | <a href="http://courseware.cutm.ac.in/">http://courseware.cutm.ac.in/</a> |
| Optics and Optical Fibres                  | <a href="http://courseware.cutm.ac.in/">http://courseware.cutm.ac.in/</a> |
| Applied Analytical Chemistry               | <a href="http://courseware.cutm.ac.in/">http://courseware.cutm.ac.in/</a> |
| Applied Engineering Materials              | <a href="http://courseware.cutm.ac.in/">http://courseware.cutm.ac.in/</a> |

|   |   |
|---|---|
| Environmental Studies                           | <a href="http://courseware.cutm.ac.in/">http://courseware.cutm.ac.in/</a> |
| Optimisation Techniques                         | <a href="http://courseware.cutm.ac.in/">http://courseware.cutm.ac.in/</a> |
| Engineering Economics and Costing               | <a href="http://courseware.cutm.ac.in/">http://courseware.cutm.ac.in/</a> |
| Project Management                              | <a href="http://courseware.cutm.ac.in/">http://courseware.cutm.ac.in/</a> |
| Gender, Human Rights and Ethics                 | <a href="http://courseware.cutm.ac.in/">http://courseware.cutm.ac.in/</a> |
| Climate Change, Sustainability and Organisation | <a href="http://courseware.cutm.ac.in/">http://courseware.cutm.ac.in/</a> |
| Job Readiness                                   | <a href="http://courseware.cutm.ac.in/">http://courseware.cutm.ac.in/</a> |
| Industrial IOT and Automation                   | <a href="http://courseware.cutm.ac.in/">http://courseware.cutm.ac.in/</a> |
| Data Analysis and Visualisation using Python    | <a href="http://courseware.cutm.ac.in/">http://courseware.cutm.ac.in/</a> |
| Machine Learning using Python                   | <a href="http://courseware.cutm.ac.in/">http://courseware.cutm.ac.in/</a> |

#### 4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

| Assigned Budget on academic facilities | Expenditure incurred on maintenance of academic facilities | Assigned budget on physical facilities | Expenditure incurred on maintenance of physical facilities |
|--|--|--|--|
| 2110                                   | 1918   | 2076                                   | 53252622   |

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

i. The University monitors the progress of students in four dimensions, such as Professionalism, Communication Skill, Presentation Skill, World View and Domain Knowledge. ii. Through use of ICT systems (like ERP), the University records, processes and disseminates the progress of students to students, parents, teachers and administrators. iii. The Mentor prepare career plan for each of their students. The baseline test is done and then a plan is prepared for the student's semester wise to progress and reach the desired/ aspired level so as to get job in the organisation they have aspired for/ pursue higher studies in their institute. This helps the tracking of the progress of the student semester wise. iv. The culture sports and responsibility (CSR) cell of the University, through it 20-odd club continuously strives to engage students in curricular and extra-curricular activities of their liking. v. Plan to take a pledge / undertaking of stay away from all forms of intoxicants: An undertaking from all existing and future joining students should ensure that he/ she shall not consume gutka/pan/alcohol/cigarettes or any other forms of intoxicants in campuses/centres or enter to campus/centre/premises under the influence of intoxicants. vi. The access points for enabling Wi-Fi facility was installed in all hostels. Enhanced the speed of internet from 4 MBPS to 155 MBPS. vii. Extracurricular activities increased. Intercollege sports competitions organised. viii. Student feedback survey

<https://cutm.ac.in/>

#### CRITERION V – STUDENT SUPPORT AND PROGRESSION

##### 5.1 – Student Support

5.1.1 – Scholarships and Financial Support

|  | Name/Title of the scheme | Number of students | Amount in Rupees |
|--|--------------------------|--------------------|------------------|
|  |                          |                    |                  |

|                                      |                                      |      |          |
|--------------------------------------|--------------------------------------|------|----------|
| Financial Support from institution   | Financial support from institution   | 2579 | 45669385 |
| Financial Support from Other Sources |                                      |      |          |
| a) National                          | Financial support from government    | 284  | 7799400  |
| b)International                      | Financial support from other sources | 3    | 254500   |
| No file uploaded.                    |                                      |      |          |

5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

| Name of the capability enhancement scheme | Date of implemetation | Number of students enrolled | Agencies involved                      |
|---|-----------------------|-----------------------------|--|
| Soft skills                               | 01/08/2019            | 178                         | Literary Club                          |
| Soft Skills Training                      | 01/08/2019            | 300                         | Mr. Yogendra Singh, Soft Skill Trainer |
| Life Skills Devlopment (MSSSOA)           | 01/08/2019            | 1481                        | Internal Faculty                       |
| Remedial coaching phase II(SOAS)          | 01/08/2019            | 140                         | Internal Faculty                       |
| <a href="#">View File</a>                 |                       |                             |  |

5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

| Year                      | Name of the scheme   | Number of benefited students for competitive examination | Number of benefited students by career counseling activities | Number of students who have passedin the comp. exam | Number of studentsp placed |
|---------------------------|--|--|--|---|----------------------------|
| 2019                      | Preparatory coaching for Common Admission Test (CAT): Module - Verbal Ability and Reading Comp rehension | 50   | 50   | Nil   | 550                        |
| <a href="#">View File</a> |  |  |  |   |                            |

5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

| Total grievances received | Number of grievances redressed | Avg. number of days for grievance redressal |
|---------------------------|--------------------------------|---|
| Nil                       | Nil                            | Nil   |

**5.2 – Student Progression**

## 5.2.1 – Details of campus placement during the year

| On campus                     |                                 |                           | Off campus                    |                                 |                           |
|-------------------------------|---------------------------------|---------------------------|-------------------------------|---------------------------------|---------------------------|
| Name of organizations visited | Number of students participated | Number of students placed | Name of organizations visited | Number of students participated | Number of students placed |
| 134                           | 1548                            | 980                       | Nil                           | Nil                             | Nil                       |
| No file uploaded.             |                                 |                           |                               |                                 |                           |

## 5.2.2 – Student progression to higher education in percentage during the year

| Year | Number of students enrolling into higher education | Programme graduated from | Department graduated from | Name of institution joined  | Name of programme admitted to |
|------|--|--------------------------|---------------------------|---|-------------------------------|
| 2019 | 19   | B.Tech                   | Ag                        | OUAT, BBSR, Utkal University, KIIT, IIT, AMIT                       | M.Tech. MBA                   |
| 2019 | 3  | B.Tech                   | CSE                       | KIIT, GEC, Deradun  | M.Tech., MBA, UPS             |
| 2019 | 4  | B.Tech                   | EEE                       | CUTM, CET, Rajdhani   | M.Tech.                       |
| 2019 | 15   | BBA                      | BBA                       | VJIM, BBSR, TIME-Hyderabad, CUTM, IBA Bangalore                     | MBA, PGDM                     |
| 2019 | 6  | B.Sc.                    | Botany                    | AP University, Utkal University, FM University, DD College KEonjhar | MBA, B.Ed. BCA                |
| 2019 | 11   | B.Sc.                    | Chemistry                 | CET, Bhubaneswar, North University, CV Raman, ITER, CUTM            | M.Sc. Chemistry               |
| 2019 | 12   | B.Sc.                    | Physics                   | CET-BBSR, NIT-RKL, Ranchi University, Berhampur University, CUTM    | M.Sc. & MBA                   |
| 2019 | 8  | B.Sc.                    | Zoology                   | Mahindra-BBSR, Kolhan University - Jharkhand,                       | B.Ed., M.Sc., Banking         |



|                   |   |        |            |  |                                |
|-------------------|---|--------|------------|--|--------------------------------|
|                   |   |        |            | Sundargarah<br>Govt.<br>College                      |                                |
| 2019              | 7 | B.Tech | Civil      | VSSUT,<br>Burla, KIIT,<br>Bhubaneswar,<br>GIET, BPUT | M.Tech.                        |
| 2019              | 8 | B.Tech | Mechanical | BRBCL,<br>IBS, SKDAV,<br>RKDF                        | MBA,<br>M.Tech.,<br>Safty Engg |
| No file uploaded. |   |        |            |  |                                |

5.2.3 – Students qualifying in state/ national/ international level examinations during the year  
(eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

| Items             | Number of students selected/ qualifying |
|-------------------|---|
| NET               | 3                                       |
| GRE               | 1                                       |
| CAT               | 4                                       |
| Any Other         | 4                                       |
| GATE              | 2                                       |
| Any Other         | 155                                     |
| No file uploaded. |   |

5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

| Activity   | Level            | Number of Participants |
|--|------------------|------------------------|
| Cricket Tournament (Men Women), Volley Ball, Rangole, Nail Arts, Solo Dance Football, Kabadi, Basket Ball, Kho-Kho, Tennis, Badminton, Musics Chair, High Jump, Lung Jump, Swimming Competition (Boys Girls), Swimming Staff Competition, Slow cycling | Inter Department | 234                    |
| No file uploaded.  |                  |                        |

### 5.3 – Student Participation and Activities

5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

| Year | Name of the award/medal | National/ Internaional | Number of awards for Sports | Number of awards for Cultural | Student ID number | Name of the student      |
|------|-------------------------|------------------------|-----------------------------|-------------------------------|-------------------|--------------------------|
| 2019 | Silver                  | National               | 1                           | 1                             | 18170421<br>0019  | Subhankar<br>Rout        |
| 2019 | Silver                  | National               | 1                           | Nil                           | 16030116<br>0053  | Rati<br>Ranjan<br>Mishra |

5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

Student centric learning through Deming Cycle of Plan, Do, Check and Act (PDCA) is encouraged. Faculty members are also being trained to adopt adult learning paradigms of Action-Reflection-Action by stressing project centric and peer based learning. IQAC picks up the best practices through a series of faculty development workshops conducted (like Group Dynamics, Mentoring, IELTS, Identify how to address Research Proposal making, Gender Sensitization, etc.) for observation in class rooms and formal feedback sessions. Students, Alumni, Industry experts and faculty from other Institutions are co-opted in teaching-learning development process. These approaches are blended with class room teaching based on the feedback received from students, faculty and result analysis. Automate and AMCAT certifications by faculty members certified and Industry Certifications added. The University monitors the progress of students in four dimensions, such as Professionalism, Communication Skill, Presentation Skill, World View and Domain Knowledge. Regular career counseling and grooming by external resource persons are undertaken.

#### 5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

The alumni association of CUTM, namely, AAJ (Alumni Association of Jagannath Institute for Technology Management or JITM) was formed in the year of 2008 with a very small of group of Alumni of the University's constituent unit JITM. It was officially registered in 2008. i. AAJ collects all relevant information from alumni on challenges and technology trends in industry for curriculum development. ii. It facilitates smooth transition of students from academic environment to industry setting through their involvement in teaching, grooming, internship and placement support.

5.4.2 – No. of registered Alumni:

545

5.4.3 – Alumni contribution during the year (in Rupees) :

10000000

5.4.4 – Meetings/activities organized by Alumni Association :

YES

### CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

#### 6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

VISION i. Provision of quality, globally accredited academic programs in Technology and Management. ii. Provision of globally accredited employability training for less endowed segments of the population. iii. Promotion of entrepreneurial culture and enterprise in the target areas. iv. Facilitating improved market access to goods and financial services to the target population. v. Promotion of lighthouse project interventions in the target area. MISSION A globally accredited human resource centre of excellence catalyzing sustainable livelihoods in the less developed markets across the globe Orientation of the University i. Learning: Hands on, Experience based and

Practice oriented ii. Ideas: Make a difference through appropriate and relevant innovation and actionable research. iii. Value: Shaping Lives, Empowering Communities and creating Nano, Mini and Micro enterprises. iv. Experience: Quantifiable, Sustainable, Scalable and Replicable while striving to create a sense of ultimate delight among all stakeholders. v. Application oriented and industry oriented training were conducted in campuses.

6.1.2 – Does the institution have a Management Information System (MIS)?

Yes

## 6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

| Strategy Type          | Details   |
|------------------------|---|
| Curriculum Development | <p>i. To ensure relevance of the curriculum to the needs of the society in general and state, market and civil society organisations in particular, a participatory approach is followed for need analysis, curriculum design, delivery and assessment. ii. All stakeholders including members of alumni, industry, sector skill councils, academics and researchers in the relevant disciplines are systematically included in the curriculum development. iii. In a structured manner, draft curriculum, delivery and assessment processes are discussed in the Faculty Council, Board of Studies and Academic Council before finalisation. iv. Modular design, continuous assessment and feedback to students and faculty, optimal mix of class room and experiential learning through projects and internships are ensured for desired quality.</p> |

6.2.2 – Implementation of e-governance in areas of operations:

| E-governance area        | Details  |
|--------------------------|--|
| Planning and Development | <p>Implementation of e-governance in areas of operations We are using e-governance through our ERP system in the following areas : i. Curriculum Development ii. Teaching and Learning including availability of course material to study for the students iii. Examination and Evaluation iv. Research and Development v. Library and infrastructural facilities vi. Faculty and Staff recruitment vii. Admission of students and fee collection viii. Industry Interaction / Collaboration</p> |

## 6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

| Year | Name of Teacher        | Name of conference/ workshop attended for which financial support provided           | Name of the professional body for which membership fee is provided                         | Amount of support |
|------|------------------------|--|--|-------------------|
| 2019 | Dr. Amulyaratna Behera | Recent Advances and Challenges in Forensic Crime Investigation                       | Science and Engineering Research Board   | 75000             |
| Nil  | Dr. Mohammed Siddique  | International Conference on Advanced in Mathematics and Computing 2020. VSSUT, Burla | ICAMC-2020, VS SUT, Burla  | 2000              |
| 2019 | Dr. Dojalisa Sahu      | 5th International conferences on Nanoscience and nanotechnology ,2019                | SRM university ,Szhizuoka University Japan ,NCTU Taiwan ,GNS Newzealnd ,CSIR-NPL,ACCMS,IET | 5500              |
| 2019 | Dr. Arun Kumar Sahoo   | Trainer of Trainer (TOT) Mining - Skill Council of Mining Sector (SCMS) Workshop     | CUTM   | 15000             |

[View File](#)

6.3.2 – Number of professional development / administrative training programmes organized by the University for teaching and non teaching staff during the year

| Year | Title of the professional development programme organised for teaching staff | Title of the administrative training programme organised for non-teaching staff | From date  | To Date    | Number of participants (Teaching staff) | Number of participants (non-teaching staff) |
|------|--|---|------------|------------|---|---|
| 2019 | Outcome based education  | nil   | 06/07/2019 | 06/07/2019 | 32                                      | Nil   |
| 2019 | nil  | Soft computing techniques   | 12/07/2019 | 12/07/2019 | Nil                                     | 15  |

[View File](#)

6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

| Title of the professional development programme | Number of teachers who attended | From Date | To date | Duration |
|---|---------------------------------|-----------|---------|----------|
|---|---------------------------------|-----------|---------|----------|

|  |    |            |            |   |
|--|----|------------|------------|---|
| Bio-inspired computational techniques and tools for engineering applications | 19 | 29/08/2019 | 30/08/2019 | 2 |
| Outcome based education for accreditation                                    | 32 | 06/07/2019 | 06/07/2019 | 1 |
| <a href="#">View File</a>  |    |            |            |   |

6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

| Teaching  |           | Non-teaching |           |
|-----------|-----------|--------------|-----------|
| Permanent | Full Time | Permanent    | Full Time |
| 117       | 117       | 39           | 39        |

6.3.5 – Welfare schemes for

| Teaching | Non-teaching | Students |
|----------|--------------|----------|
| YES      | YES          | YES      |

**6.4 – Financial Management and Resource Mobilization**

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

CUTM conducts internal and external financial audits regularly. It has a full-time accounts department and in house internal audit team since inception to ensure proper and timely maintenance of accounts and audit compliance. The External Financial Audit of CUTM is carried out by the appointed independent auditors (SRB and Associates Chartered Accountants). For each financial year they check and establish the accuracy of the financial statements and related accounting policies/standards are as per statutory requirements. They also give an opinion on maintenance of proper books of accounts and agreement of the certified financial statements with the books of accounts All Utilization Certificates to various grant giving agencies, FCRA annual Financials are also certified by the external auditor time to time. Since inception, till the financial year ending 2019-20, all the annual financial statements has been certified by the external auditors. The Internal audit of CUTM is conducted on concurrent basis by its internal audit team, consisting of employees and expert consultants. The team visits multiple campuses as per the approved annual audit plan and check for operational efficiency and effectiveness of internal control mechanisms with respect to the financial transactions throughout the organization established by Standard operating procedures. The internal audit mainly engages in oncurrent audit of all major receipts and payments of the university. Apart from this, the internal audit team is also involved in verification of working sheets of payroll, statutory compliance, fraud detection etc. The Internal audit team also conducts special audits time to time as per the requirement of board. The team is responsible for review of internal policies/procedures and gives recommendations to the board for modification of existing policies or implementation of new policies time to time.

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

| Name of the non government funding agencies /individuals | Funds/ Grnats received in Rs. | Purpose          |
|--|-------------------------------|------------------|
| EMMESSAR, WESTERN  | 35048279                      | CAPITAL, REVENUE |

SYDNEY UNIVERSITY, NALCO  
-FOUNDATION, SWADESH  
FOUNDATION, DEAKIN UNIVERS  
ITY/CROWFUNDING, UNIVERSIT  
Y OF WESTERN  
SYDNEY, DEAKIN  
UNIVERSITY, MIND TREE  
FOUNDATION, US CONSULATE

[View File](#)

6.4.3 – Total corpus fund generated

36374725

## 6.5 – Internal Quality Assurance System

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

| Audit Type     | External |                             | Internal |           |
|----------------|----------|-----------------------------|----------|-----------|
|                | Yes/No   | Agency                      | Yes/No   | Authority |
| Academic       | Yes      | Faculty from other Campuses | Yes      | IQAC      |
| Administrative | Yes      | Registrar                   | Yes      | Registrar |

6.5.2 – What efforts are made by the University to promote autonomy in the affiliated/constituent colleges? (if applicable)

NOT APPLICABLE

6.5.3 – Activities and support from the Parent – Teacher Association (at least three)

i. CUTM solicits support from parents for making their wards active in learning, accepting advices for professional and personal development which may not be easy to accept. A formal Parents' meet is organised once a year. ii. Access to the University's ERP is provided to parents for monitoring progress of their wards and contacting concerned faculty mentor for required deliberation. iii. Parents meeting held once a semester. The Deans (Academics and administration) explained the programs under taken during the year including facilities, infrastructure developed and initiatives for student's wellbeing and employment. The feedback of the parents are analysed and University tries to take the constructive suggestions forwards. iv. Both on-campus and off-campus Parent-Teacher meets are organized, twice an academic year, for maximizing participation of parents. v. Access to the University's ERP is provided to parents for monitoring progress of their wards and contacting concerned faculty mentor for required deliberation.

6.5.4 – Development programmes for support staff (at least three)

i. CUTM provides need-based skill training of its supporting staff members and encourages them in their career progression. ii. There are several examples of individuals starting their career at lower level and rising up in the hierarchy. iii. The University honors the Best Supporting Staff with awards and cash prizes every year.

6.5.5 – Post Accreditation initiative(s) (mention at least three)

i. Placement activities has been a thrust area and is augmented fully across campuses ii. E Waste management has been a key focus area and to the extent Waste to Wealth lab has been setup iii. Introduced programs in Agriculture, Veterinary Science, Food Technology and Bio-Technology iv. Physical Infrastructure has been strengthened and also equipped with digital learning

facility in classrooms

6.5.6 – Internal Quality Assurance System Details

|  |     |
|--|-----|
| a) Submission of Data for AISHE portal | Yes |
| b) Participation in NIRF               | Yes |
| c) ISO certification                   | Yes |
| d) NBA or any other quality audit      | Yes |

6.5.7 – Number of Quality Initiatives undertaken during the year

| Year                      | Name of quality initiative by IQAC | Date of conducting IQAC | Duration From | Duration To | Number of participants |
|---------------------------|------------------------------------|-------------------------|---------------|-------------|------------------------|
| 2019                      | Course progress and attendance     | 02/08/2019              | 02/08/2019    | 02/08/2019  | 12                     |
| 2019                      | IQAC coordinators Meeting          | 04/09/2019              | 04/09/2019    | 04/09/2019  | 13                     |
| <a href="#">View File</a> |                                    |                         |               |             |                        |

**CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES**

**7.1 – Institutional Values and Social Responsibilities**

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

| Title of the programme           | Period from | Period To  | Number of Participants |      |
|----------------------------------|-------------|------------|------------------------|------|
|                                  |             |            | Female                 | Male |
| Gender sensitization             | 07/02/2020  | 07/02/2020 | 15                     | 10   |
| Gender sensitivity and awareness | 29/02/2020  | 29/02/2020 | 9                      | 13   |

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

|  |
|--|
| Percentage of power requirement of the University met by the renewable energy sources  |
| <p>i. Bio gas plant 2 metric NC (Generated through our kitchen waste and diary wasted collected daily on campus) ii. We are also having two Bio Digester Composter from kitchen waste generating manure for the plants. The installed capacity is 200 Kg input which gives 20 kg output and 500 kg input which gives 50 kg output. Percentage of power requirement of the University met by the renewable energy Paralakhemundi 500 KW or Bhubaneswar 500 KW and 13 KW for grid interface lighting. We have installed 6 KW plant for the walkway path.</p> |

7.1.3 – Differently abled (Divyangjan) friendliness

| Item facilities  | Yes/No | Number of beneficiaries |
|--|--------|-------------------------|
| Special skill development for differently abled students | Yes    | Null                    |

7.1.4 – Inclusion and Situatedness

| Year | Number of | Number of | Date | Duration | Name of | Issues | Number of |
|------|-----------|-----------|------|----------|---------|--------|-----------|
|------|-----------|-----------|------|----------|---------|--------|-----------|

|                           | initiatives to address locational advantages and disadvantages | initiatives taken to engage with and contribute to local community |            |   | initiative                                 | addressed                                    | participating students and staff |
|---------------------------|--|--|------------|---|--|--|----------------------------------|
| 2019                      | Nil  | Nil  | 15/08/2019 | 2 | Visited Madhur Mayee Adarsh Siksha Niketan | Cause, Care Concern of the Convicts Children | 26                               |
| 2019                      | Nil  | Nil  | 01/09/2020 | 4 | CENTURIONS FOR SOCIAL CAUSE                | Creating awareness about Traffic Rules       | 30                               |
| <a href="#">View File</a> |  |  |            |   |  |  |                                  |

#### 7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

| Title | Date of publication | Follow up(max 100 words) |
|-------|---------------------|--------------------------|
| nil   | Nil                 | nil                      |

#### 7.1.6 – Activities conducted for promotion of universal Values and Ethics

| Activity                  | Duration From | Duration To | Number of participants |
|---------------------------|---------------|-------------|------------------------|
| Ethics and Values         | 19/07/2019    | 19/07/2019  | 21                     |
| Ethics and Values         | 16/08/2019    | 16/08/2019  | 19                     |
| <a href="#">View File</a> |               |             |                        |

#### 7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

i. Tobacco and alcohol free campus ii. Plastic bag free campus iii. Conversion of kitchen and biodegradable waste into bio fertilizer iv. Plantation of trees, especially endangered species v. Regular cleanliness drive involving students, faculty and staff vi. Soil Conservation through plantation and contour development vii. Rain water harvesting viii. Energy Management practices (using LED lights on streets, use of 5-star appliances, regular energy audit of the campus) ix. Regular awareness drive and competition by Green Club x. Erection of Grid interactive solar power plant of half a Megawatt capacity each in its Bhubaneswar and Parlakhemundi campuses. xi. Sewage water treatment plant.

### 7.2 – Best Practices

#### 7.2.1 – Describe at least two institutional best practices

i. Use of ICT in Teaching Pedagogy Skill development as a part of curriculum ii. Skill Integration in Curricula iii. Community Outreach iv. CUTM Qualification Frame Work v. Labs are used for project and project leading to production.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

### 7.3 – Institutional Distinctiveness



7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

Centurion University of technology and manage as a intuitional s is different tries to adapt constantly unconventional methods to give the students an opportunity of new age learning of the cutting of this technology which will help the students to get a better opportunity in the industry. Thereby, Creating new Labs with introducing Labs with industry collaboration and in the same time giving them internships in their respective domains for real time expose. i. Job linkages, building appropriate and relevant competencies and confidence are not job of a division. The ecosystem must be redefined and re-crafted. Weeding out non-serious elements is very important but also capturing the aspirations of Students for higher studies, or supporting family business or entrepreneurship must be the part of CDG. Such a data base would be helpful for the University and they would be linked to Centre for Innovators and Entrepreneurs. ii. Application of Block Chain technology in agriculture and learning records iii. Altair Hyper mesh will be utilized for modeling and simulation of different systems related to mechanical, civil and electrical engineering iv. Biovia discovery studio module will be used for draft design and aptamer design. Biovia material studio will be used for different inorganic, organic composites and smart material. v. Biovia pipeline pilot will be used for image analysis applications such as determination of crop health using images captured by drones (hyper spectral images captured by drones). Biovia pipeline pilot will be used for image analysis application such as crop health determination by analyzing pictures taken by drone. It will also be used for Machine learning application (such artificial neural network and deep learning). vi. Plan to use Geovia and Enovia for different mining applications vii. 3D experience tools such as CATIA, SIMULIA and DELMIA will be used for new product design and development (Mobility applications). DYMOLA will be used for electrical circuit analysis

Provide the weblink of the institution

<https://cutm.ac.in/>

## 8.Future Plans of Actions for Next Academic Year

i. The University will offer new programs such as M.Phil. in Physics, Chemistry and Mathematics Certificate courses in Medical Lab Technician (MLT), ii. Intensive training on world view, communication and life skill will be provided to students. iii. Student and faculty research will be in the areas relevant to the needs of community and industry. iv. Consulting assignments in the area of community institution building will be taken up. v. Consolidation of Domain based teaching for all engineering programs and introduction of new domain Courses. vi. Skill development program by Centre for Renewable Energy and Environment vii. The University will have process innovation in new-age teaching-learning methods for teachers and students. viii. The University will be a repository of context specific knowledge of its natural, socio- cultural, economic and ecological environment. ix. Each School of the University (engineering, management, natural science, social science, vocational education, architecture and planning) will have at least 2 adjunct faculties from industry/Research Institutes. x. It will have a student strength of 2,500/year for graduate and higher education and 20,000/year for skill development of school dropouts. xi. At the beginning of each session, conduct all tests (such as Co-Cubes Employability Test) communication skill test every year and send the score card to parents with suggestive remedies conduct the final Test at the end of the year and link this test to the student's transcript. xii. Various lab experiments, gaming applications and learning applications will be developed using AR/ VR and UNITE. We envision how Centurion will look like in next 3 years: • Centurion University, in totality, will have a full-fledged health services school offering optometry,

radiology, MLT, cardio assistant, ophthalmic assistant, anesthesia assistant and OT technician. Robert Bosch, Essilor or Carl Zeiss and a few hospitals will be partners. We may have to partner with or own a couple of small 100 bed hospitals. Locally at least, in this region, we will be the pioneers. We are the only non-medical University now focusing on this. This may become the flagship program in Vizag campus, it may contribute numbers to Bhubaneswar and it will be weak in Paralakhemundi. • BBSR campus will be dominated by School of Applied Sciences and supported by School of Engineering and Applied Health. Whereas, Paralakhemundi campus will be dominated by Agriculture, Fisheries and Allied programs along with Agriculture Engineering. Again, we are pioneers in this regionally at least. We need to support this position. • School of Engineering will play a second fiddle in all campuses, in terms of volumes and numbers. But it will be a crucial zig in the puzzle. So will be the vocational school. School of Engineering and Technology needs to be integrated within itself as well as other schools. TECHNOLOGY will be the common THREAD of all what we do. • School of Management and Media School will limp along. BBA and BCom have great potential and we can do numbers there. We are not focusing much.