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Centurion University of Technology and Management
Minutes of IQAC Meeting Bhubaneswar Campus (July-September 2021)

Date: 6th October, 2021

Time: 11 a.m.

Venue: Boardroom

Members Present:

1. Dr. Nibedita Nayak (IQAC Coordinator – SoAS, Physics)
2. Mr. Chittaranjan Routray (IQAC Coordinator – SoAS, Chemistry)
3. Mrs. Bhagyeswari Behera (IQAC Coordinator – SoAS, Botany)
4. Dr. Yashaswi Nayak (IQAC Coordinator – SoAS, Zoology)
5. Dr. Swarnalata Jena (IQAC Coordinator – SoAS, Mathematics)
6. Dr. Goutam Kumar Mahato (IQAC Coordinator – SoAS, Mathematics)
7. Prof. Debashree Behera (IQAC Coordinator – SoET, Mechanical)
8. Mr. Subrat Kumar Pradhan (IQAC Coordinator – SoET, ECE)
9. Prof. Rama Prasanna Dalai (IQAC Coordinator – SoET, EEE)
10. Dr. Saine Sikta Dash (IQAC Coordinator – SoET, CIVIL)
11. Dr. Shreela Dash (IQAC Coordinator – SoET, CSE)
12. Dr. Sabyasachi Dey (IQAC Coordinator - SoM)
13. Dr. Ambika Sankar Mishra (IQAC Coordinator - SoMC)
14. Mr. Himansu Bhusan Samal (IQAC Coordinator - SoPLS)
15. Mr. Jitendra Gupta (IQAC Coordinator – SoPAHS)
16. Mr. Kulabhusan Pradhan (IQAC Coordinator – SoVET)
17. Mrs. Suchismita Nayak (IQAC Coordinator - SoVET)
18. Ms. Shruti Rajwar (IQAC Coordinator - SoFS)

Agenda & Action taken

- A new skill course “Introduction to Nanotechnology” was introduced in the M.Sc. program.
- A new LASER Lab was developed for students opting for laser as a domain.
- One webinar was organized on webinar series of Sustainable Development Goal on “International Webinar on Genomics approach towards improvement of Pearl millet” on 29th of September 2021.
- Dr. Rukmini Mishra was awarded the Eminent Achiever Award on 5th September 2021 by Centurion University of Technology and Management.
- Students are writing their review articles and starting their project work.
- A hard copy for the 64 files of the department of the files for NAAC criteria has been compiled.
- Old NAAC files need to be updated along with the new NAAC Criterion.
- Research papers and book chapters were published by every faculty member associated with their respective research centers and other topics.

- New domain and certificate courses were approved and a new program “M.Sc. in Plant Genomics” was introduced for approval by the expert committee in the BOS meeting on 9th July 2021.
- 2nd semester examination was completed which was held on 19th July 2021. The odd semester of both M.Sc. and B.Sc. was started in August and July respectively.
- Mapping and identifying various files as per new criteria at the department level has been completed.
- 2nd internal assessment of odd semester of B.Sc. 3rd, B.Sc. 5th semester and M.Sc. 3rd semester are in progress.
- B.Sc. and M.Sc. 1st year student admissions are in progress.
- Two webinars were organized in the department.
- A new skill course “Introduction to Nanotechnology” was opted for by B.Sc. 5th semester students.
- Offline classes were resumed.
- This time it is declared by University to focus on research and publications in reputed indexed journals for which targets are given for the same.
- All faculties are advised to give the mentoring report.
- The course progress report has been verified.
- All lab assistants must need to give the lab status report.
- Finalization of subject for even semester has been completed.
- Lab Assistants are instructed to check whether all machines are in working condition or not. If not, they must be ready within a week.
- Each faculty is advised to check the CBCS sheet of students.
- Each faculty must need to arrange one Event.
- All Laboratory practice must be conducted within 15 days on the college campus in physical mode.
- To check the subject registration of 1st semester and Lateral students.
- An external evaluation sheet is provided by the exam cell. All need to carry out the evaluation process and give in time.
- Orientation classes for the 1st year students were conducted.
- Mock PI has been scheduled and a team of senior faculties undertaking this activity. The process is getting reviewed daily at 4 PM.

Admission Related

- All faculty members were advised by the HoD and Dean to help in admission by counseling students. BSc and M.Sc. students’ admission was going on.
- Orientation for B.Sc. and M.Sc. students was planned.
- Due to the covid-19 outbreak, the intermediate as well as B.Sc. examinations of most of the universities have not been completed. So, the University authorities advised to take proper measures to avoid physical contamination during admission. if possible maximum work should be done online.
- Faculty members went for presentation and brand building of the University in different colleges and Institutions outside the campus and state that will help in admission.
- Faculty members are involved in student counseling along with parents who are coming for admission into different programs.
- Admission coordinator Dr. Kalpita Bhatta taking the lead in Admission drive.
- For the pandemic situation, Admission of the new batches was delayed.

- The University authorities advised to take proper measures to avoid physical contamination during admission. If possible maximum work should be done online.
- The admission coordinator is responsible for all admission-related issues and will guide the students in this regard. He can take the help of any faculty member whenever required.
- Departments and Admission team has decided to boost the numbers in the current academic session.
- It was planned for an effective orientation program.
- Admission coordinators were advised to design departmental activity templates.
- The admission activities for the School of Management are being conducted by Mr. G.K. Panda and Ms. Nita Patwari. Currently, 58 students have booked for the MBA program (MBA+MBA-Pharma), 108 students have booked for the BBA program and 19 students have booked for the B. CoM program (Source: Admission cell).
- An admission-related meeting was conducted By Dr. Nitesh Dhar Badgayan, Dean, SOVET, Ajay Rout, Vice Principal, Bhubaneswar campus.
- Different teams will be formed soon to contact the students from the State level.
- Another meeting related to the admission process is scheduled to be held on 23rd October 2021.
- The total number of admission in B.Sc. Forensic Science is 12, M.Sc. Forensic Science is 17 and M.Sc. Cyber Security and Digital Forensic are 14 in 2021.

Teaching and Learning

- Lesson plan presentation for B.Sc 3rd Semester and M.Sc 3rd Semester was done by faculty members for their assigned subjects in presence of HoD.
- Time-table prepared for B.Sc 3rd and M.Sc 3rd for 17 weeks (as per the academic calendar hosted on the CUTM website).
- 1st internal assessment conducted in online mode as per university norms for M.Sc. 3rd Sem, B.Sc. 3rd Sem and 5th Sem students in September.
- All the practices have been done through off line mode.
- All courses to move to minimum Theory-Practice or Project mode.
- All the faculties have prepared doodly and Adobe spark videos related to all certification, skill courses.
- It was suggested that Mr. Saban Maharana of SoMC will deal with different issues of skill development.

Assessment

- 2nd internal examination and evaluation (online presentation mode) were completed for the current batches.
- For 2nd Sem, 4th Sem, and 6th Sem B.Sc students the assessment was done as per CBCS pattern with Internal (T+P) =50 (20+30), External (T+P) =50 (30+20).
- For 2nd Sem and 4th Sem, M.Sc. students assessment was done with Internal =40 & External = 60.
- Online semester examination conducted for B.Sc 4th, B.Sc 6th, and M.Sc 4th sem students.
- Project work (Domain) of B.Sc 6th student's completed.
- Even semester results were out. Results analysis and review were done in dept. meeting.
- Load distribution, Lesson plan preparation, and presentation by respective faculty members for the odd semester of all programs were completed.

- The external practice examinations for different subjects have been over and marks were sent to the Exam cell for the record.
- 1st internal examination of the existing batch has been completed and marks uploaded in ERP.
- EoD notification has come out and students with the help of concerned faculty members were preparing for it.
- IELTS Examinations notice has been come out to be held from 10th to 18th July 2021 and students were asked to register for it.
- Offline training class for all students has been started from 23rd August 2021.
- The classes have been conducted by faculty members in Offline mode / Google meet (Domain syllabus in online mode) strictly following the syllabus and lesson plan uploaded in the ERP of the University.
- Remedial classes were taken based on the students appearing for the upcoming EoD exam.
- Time table for the odd semester (existing batch) is already circulated among faculty members.
- The lesson plan presentation was conducted in front of SoAS Mentor and Director (Dr. D. Bhattacharyya sir) for the BSc and MSc program.
- A new skill course in Aquaponics was designed and placed for BOS approval.
- Students are assessed by internal and external examination, project, practice, and assignment in online as well as an offline mode as the offline classes also started following Government of Odisha notification for higher education institutions.
- Offline classes were conducted as per guidelines laid down by the Government of Odisha. But the inter-campus courses were handled in online mode.
- Lesson plan presentations were conducted in the presence of the Dr. Umakanta Nayak, Dean, School of Management during the first week of July just before the beginning of the odd semester.
- For the MBA and BBA final year students, the Business Analytics domain was introduced in collaboration with Hitachi Vantara and many students opted for the same. All Faculty members of SoM recorded video lectures of their courses to upload them in the Swayam Portal of UGC.
- Theory semester exams were conducted for the even semester (2nd and 4th Semester) for all 2020 admitted batch (BSc MLT, BSc CMB, BSc MRT, BSc ATT, B. Optometry MSc MLT, and MSc CMB).
- First internal exam for theory was conducted for all odd semester (3rd and 5th Semester) students ((BSc MLT, BSc CMB, BSc MRT, BSc ATT, B. Optometry MSc MLT, and MSc CMB).

Student Performance

- Result analysis for both B.Sc. and M.Sc. programs is completed for all the batch of pass-out students and semester-wise result analysis was also done.
- Students of BSc 4th, B.Sc., 2nd and MSc 2nd semester students have performed well in both the campus have shown 100 percent, 98.7 percent, and 97.4 percent in their end.
- Only a few students in M.Sc. were identified as slow learners and needed extra attention for academic performance. Remedial classes and doubt clear classes were conducted for their improvement.
- All the final year students have completed domain projects and internships of the Automobile and CNC domain.
- Student performance remains satisfactory during the quarter. Result analysis of the students'

performance has been done after and the required files are uploaded in the drive (MBA, BBA, and B.Com. 2nd semester result).

- D. pharm 1st and B. Pharm 2nd semester theory and practical results have been released and students have been performed well.
- End semester examination result of B.Sc. Forensic Science 5th semester was released on 8th October
- Score sheet of 1st Internal of M.Sc. Forensic Science 3rd semester, M.Sc. Cyber Security and Digital Forensics 3rd semester & B.Sc. Forensic Science 3rd semester was released on 30th September. Students have performed well.

Student Activity

- Students participated in the annual function Gajajyoti and the annual sports event for the academic session 2021-22.
- Science Club Illuminati conducted different competitions for Gajajyoti 2021 (the Annual Scientific-Techno- Management - Cultural Festival of CUTM Bhubaneswar campus).
- Students participated in different events/competitions organized by the university.
- Renukanta Naik, 190704100002, 5thSem BSC Chemistry, Bhubaneswar elected as central coordinator for Gajajyoti-2021.
- Akash Kumar Behera, 200705100046, 1st Year MSc. Chemistry, Bhubaneswar is the winner in the Poster making competition for SHATAJYOTEE-2021.
- Renukanta Naik, 190704100002, 5thSem BSC Chemistry, Bhubaneswar is the winner of the solo song competition for SHATAJYOTEE-2021.
- Piyali Deb, 180704100001 and Subhashree Khuntia, 180704100011 of 6th Sem BSC Chemistry, Bhubaneswar is the winner of Smart Thinker Challenge competition for the occasion of Annual Cultural & Literary Meet Shatajyotee-21 @ Gajajyoti-2021.
- Akash Kumar Behera, 200705100046, 1st Year MSc. Chemistry, Bhubaneswar is the winner in the painting competition for SHATAJYOTEE-2021.
- BSc 1st Year Chemistry students [Mukesh Kumar Sahoo (200704100006), Biswajit Kumar Majhi (200704100011), Jyoti Prakash Sethi (200704100002), Jyoti Ranjan Khuntia (200704100013), Sourabha Pradhan (200704100012)] have got first prize in Fresher's kabaddi competition 2020-21.
- Sangram keshari Sahu (190705100053), MSc 2nd Year Chemistry students and BSc 1st year chemistry students [(Mukesh Kumar Sahoo (200704100006), Biswajit Kumar Majhi (200704100011), Jyoti Prakash Sethi (200704100002), Sourabha Pradhan (200704100012)] have got first prize in Intercollege kabaddi competition 2020-21.
- Himanshu Rajan Sahoo (200704100009) has got second prize in the fresher table tennis competition 2020-21.
- Ronika Ragini Mishra won 2nd prize in a solo song competition in Gajajyoti-2021.
- Ronika Ragini Mishra won 2nd prize in a creative writing competition in Gajajyoti-2021.
- Ved Prakash Prusty won 2nd prize and Smruti Subhadarshinee won 3rd prize in a debate competition in Gajajyoti-2021.
- Amit Pani won 2nd prize, Subhashree Samal won 2nd prize, Sourav Rout won 2nd prize and Iti Pragyan Singh won 2nd prize in the smart thinker challenge in Gajajyoti-2021.
- Tanvi Beura won 2nd prize in the POSTER MAKING competition in Gajajyoti-2021.
- Ankita Priyadarshani won 3rd prize in the Sci-tech ppt competition in Gajajyoti-2021.

- Kajal Das won 1st prize, Sinarva Das won 1st, Amit Kumar Sahu won 1st prize and Subhakanta Nayak won 1st prize in treasure hunt competition in Gajajyoti-2021.
- Sikha Rani Sahu won 2nd prize and Priyanka Mohapatra won 3rd prize in 100 MTR race and Annual sports-2021.
- In putting the shot, Priyanka Mohapatra won 1st prize, Swagatika Bhol won 2nd prize in Annual sports-2021.
- In Broad jump, Sikha Rani Sahu won 2nd prize in Annual sports-2021.
- In Chess, Shivshankar Dwibedi won 1st prize (Men's), Barnali Panda won 2nd prize (Women) in Annual sports-2021.
- In Basketball, Itipragyan Singh won 1st prize, Tadasha Pattnayak won 1st prize, Swagatika Bhol won 1st prize, Homaprava Sahoo won 1st prize, Geetisudha Sahu won 2nd prize, Khusboo Pradhan won 2nd prize in Annual sports-2021.
- In the Tug of War competition, Amalendu Samantaray won 1st prize, Amitesh Behera won 1st prize, Amit kumar sahu won 1st prize, Lizayananda sahu won 1st prize, Abhijeet Pattjoshi won 1st prize, Narayan Mohanta won 1st prize, Sourav Kumar Rout won 1st prize, Ved Prakash Prusty won 1st prize, Narasingh Nayak won 1st prize, Geetisudha Sahu won 1st prize, Homaprava Sahoo won 1st prize, Tadasha Pattnayak won 1st prize, Sikha Rani Sahu won 2nd prize, Smruti Subhadarsinee won 2nd prize , Priyanka Mohapatra won 2nd prize and Manisha Tripathy won 2nd prize in Annual sports-2021.
- In Throwball, Itipragyan Singh won 1st prize, Swagatika Bhol won 1st prize, Khusboo Pradhan won 1st prize in Annual sports-2021.
- Students participated in all CSR activities and green club activities.
- M.Sc. 2nd semester students engaged for their semester exams.
- All the domain projects were evaluated and students were encouraged to publish papers regarding their projects.
- Different Students activities were organized on the occasion of “Independence Day”. Blood donation camps were also conducted.
- The students from the School of Management actively participated in the Management events of Gajajyoti. School of Management also created two committees: -Alumni committee as well as the Placement committee as a part of the future strategic plan of the School of Management. In both the committee there are student coordinators as well along with the faculty coordinators.
- Students were involved in preparing news bulletins for C-Studio.
- B.A. Media students covered news of the national cricket match between Chhattisgarh and Odisha.
- Media students participated in a webinar on “Tips and Tricks of Script Writing’ organized by the School Of Media and Communication on 1st October 2021.
- Three of the students of B.A. Media participated in Fresher’s Sports Meet and won the trophy and certificate for the department.
- Two students of B.A. Media students got a certificate from CSR for active participation in Gajajyoti 2021.
- Two students of B.A. Media got a prize for winning an inter-department football tournament.
- Students of the School of media and communication had a campus visit to Parlakhemundi to explore different labs and departments.
- Orientation and induction program of B. pharm 1st semester (2021-2022) and Diploma 1st year (2021-2022) has been completed.

- 1st internal assessment of B. pharm 5th, 7th semester student has been completed through online mode.
- A project guide has been allotted to each final year student.
- 2nd internal, end semester practical exam, and end semester examination of 2nd semester of B. Pharm. students have completed through online mode.
- 2nd & 3rd internal, external practical exam and annual exam of D. pharm 1st year students have completed.
- 1st internal assessment of B.Sc. Forensic Science, M.Sc. Forensic Science and M.Sc. Cyber Security and Digital Forensics 5th semester students were completed through online mode from 21st to 24th September.
- 2nd internal, end semester practical exam, and end semester examination of 2nd semester of M.Sc. and B.Sc. students were conducted through online mode.

Students Welfare

- Soft copies of all core and skill courses as per the syllabus were uploaded in the courseware app. Students were advised to use the app.
- Flip classes were conducted for every subject to improve the presentation skill of the students.
- JAM classes were conducted for B.Sc. students.
- MSc students interested in placement are assigned with Soft skill, Aptitude, and Reasoning classes which will be conducted by the Training and Placement department.
- Vice president Prof. D N Rao Sir interacted with all B.Sc. and M.Sc. students on 24th July 2021 at 11 am and discussed various aspects of career issues regarding the new syllabus and its implication.
- Students informed about NPTEL/SWAYAM Local Chapter and encouraged to enroll in SWAYAM courses for free and get certified for a nominal fee of Rs. 1000/-.
- The webinar was conducted under the “Sustainable Development Goal” webinar series. The Department of Botany, School of Applied Sciences, organized it on 29th September 2021 on the topic “Genomics approaches towards the improvement of Pearl Millet.” The invited speaker Dr. Harshraj Shinde, a postdoctoral research fellow from the University of Kentucky, delivered a talk on the above topic.
- A webinar on Exploring Self- a New Paradigm in Education was conducted by the School of Applied Science, CUTM, Odisha at Bhubaneswar campus on 24/07/2021. The webinar created an opportunity and scope for the Graduate and Post graduate students, faculty members, and research scholars to refine and enrich their learning and aptitude by the useful information provided by the speaker. The objective of this webinar was to provide the fundamental research understanding to the students and the faculty.
- The resource person analyzed and discussed the following topics with the participants.
 - An Education Paradigm shift
 - Need of paradigm shift
 - Shifting the education paradigm
 - Shifting the curriculum paradigm
 - Facilitator of learning paradigm
 - Creating a learning community
 - Learning on-demand to use technology.

- New choice for future, collegiate learners
- Common threads throughout NPL Participations
- Creating an appropriate learner center learning environment.
- The webinar provided clarity and a better understanding of Exploring Self- a New Paradigm in Education, especially about sustainable development and how the great inventors and discoveries derived inspiration from Nature.
- A departmental webinar on Science Technology and Engineering in nature was organized on 13th September 2021 at Noon. Dr. G.N. Indresha gave his talk on "Science Technology and Engineering in Nature". All the students of B.Sc. & M.Sc. participated in the webinar. All the faculties of the Department of Zoology also joined the webinar. The webinar created an opportunity and scope for the post-graduate students, faculty members, and research scholars to refine and enrich their learning and aptitude by the useful information provided by the speaker. The objective of this webinar was to provide the fundamental research understanding to the students and the faculty.
- The value-added course of Research Methodology was introduced to MSc students.
- The students of CSE participated in Odisha skill Competition 2021. Some students got Gold and silver medal and were selected for regional skills.
- Counseling of students was done continuously as at the beginning of the academic session 2021-22, the attendance level was not up to mark for the offline classes but post counseling, it significantly picked up. Students were advised to maintain social distancing while attending offline classes and wear masks as per the directions of the Government of Odisha.
- Counseling of students was done to clear all their backlogs (if any) by appearing the EoD, particularly to the final year students.

Student Training:

- JAM Class has been started to train the students for the upcoming JAM examination.
- Online coaching was being done for all competitive examinations including banking, OAS, IAS by the IAS guru institute, and the examination was held in July 2021.
- MSc students interested in placement are assigned Soft skill, Aptitude, and Reasoning classes, which will be conducted by the Placement and Training department.
- LSD classes were initiated for all eligible students.
- Base line or Cupet test, AMCAT, my perfection has been initiated for students.
- Summer placement training, Cocube pre-assessment training was carried out.
- Special aptitude, reasoning, technical classes had been given.
- Life Skill Development Programme
- Aptitude, Personality Development, Job Readiness Programme.
- Special Coaching for GATE & UPSC Exam.
- IELTS and AMCAT assessment test was held.
- Summer technical training for TATA Power Technical Training was conducted by the department.
- Employability Training and Self-Assessment by British Council
- The following platforms are used to enhance the skills of students
- Aspiring Mind Cocubes

- iCalirator
- Eureka
- OPTCL
- Pegasus
- Showhow2
- My perfectice
- The student training for 4th year students was planned and executed to practice coding.
- As per the planned activity for student training and coding practice for 4th year students is done regularly (C, C++, Java, Python)- Weekly 7 classes (Mr. Rakesh Kumar Ray, Mr. Saneev Kumar Das, Mr. Nilamadhab Dash).
- Students have registered in SFS (Skill for Success) course and they are pursuing the skill courses along with their core courses as well. Job readiness training is also being provided to the students completely in practice mode which is of six credits and it has been made compulsory for all students.
- All faculty members, MBA 1st year and BBA 1st year students attended the webinar on “Traversing through the Uncertainties of a Startup” the eighth talk on “Rethinking Management Webinar Series” on 10th July 2021.
- All faculty members and students of SoM attended the online impact lecture on “Medical Diagnosis and Preventive Healthcare in India-Scope and Opportunities” on 30th July 2021.
- All faculty members, MBA 1st year and BBA 2nd year students attended the webinar on “Startup Success Story” on 31st July 2021.
- All faculty members and students of SoM attended the webinar on ‘Investor Protection Fund (BSE-IPF) on “Capital Market Awareness” on 5th August 2021.
- All faculty members and students of SoM attended the webinar on “What Do Pandemics Suggest about Human Behavior” on 13th August 2021.
- All faculty members and students of SoM attended the webinar on “Navigating Retail Ecosystems” on 18th August 2021.
- All faculty members and students of SoM attended the webinar on “Financial Freedom Savings vs Investments” on 21st August 2021.
- All faculty members and students of SoM attended the webinar on “National Education Policy 2020” on 16th September 2021.
- Students of SoM also attended the webinars on Marketing Analytics conducted by Dr. Sisir Ranjan Dash and Dr. Sabyasachi Dey representing their research center i.e., Center for Data Science and Machine Learning.
- SoM students attended the webinar on Marketing Analytics on “ANOVA by Python” on 31st July 2021.
- SoM students attended the webinar on Marketing Analytics on “Visualizing Sales Data” on 14th August 2021.
- SoM students attended the webinar on Marketing Analytics on “Applications of Regression on Marketing Analysis” on 28th August 2021.
- SoM students attended the webinar on Marketing Analytics on “Basic Applications of Time Series” on 25th September 2021.

- A webinar on script writing by award-winning Odia film Director, Mr. Himanshu Khatua was organized for students.
- Students have been trained by attending the Mock interview and practice session conducted by the Placement cell of CUTM of concerned Schools and interviews of SoPLS had taken and evaluated by Dr. Gurudutta Pattnaik, Principal, SoPLS, CUTM, Bhubaneswar.
- The Pre-placement and Career counseling was conducted by SoPLS, the placement department. Dr. Gurudutta Pattnaik, Mr. Himansu Bhusan Samal, Mr. Bikash Ranjan Jena, and Mr. Abhisek Sahu were present during the pre-placement programme on 10th August 2021. Dr. Gurudutta Pattnaik (Principal), Mr. Himansu Bhusan Samal (IQAC co-ordinator), and Mr. Bikash Ranjan Jena (Placement Co-ordinator) have delivered the presentation related to preplacement rules, the scope of pharmaceutical companies, and the main objective of pre-placement and career opportunities of pharma domain during the session. The career counseling was done by student interest and the department they are willing to work by collecting their reviews through Pre-placement form distribution by Mr. Abhisek Sahu SoPLS, Bhubaneswar. The special career counseling and preplacement has been completed and several points are emphasized such as communication skills, Personality Development, Soft skills, Group Discussion, etc.
- Optometry- We are training students to get a practical knowledge of testing eye sight, visual acuity
- Radiology-Practical knowledge in manual and digital X-ray testing.
- MLT-Students are getting trained to check blood pressure, blood sugar, and blood groups, Centrifuge, CBC, LFT, KFT, Lipid Profile, Malaria, Typhoid, Colorimeter, Semi-Auto Analyzer, and Full Auto Analyzer, Histopathology.
- CMB-Culture And Antibiotic Sensitivity, Media Preparation, Sterilization, Gram Stain, Isolation of Micro-organism (Bacteria and Fungus) from Food, water, and Other Sample, ZN Staining.
- OT-Students getting trained as an OT technician, EEG, ECG tests training.

Job preparedness:

- IELTS Examinations were held from 10th to 18th July for students towards job preparedness.
- The Training and Placement team had conducted the Baseline test - 3 in the MyPerfectice platform to measure your current status in terms of proficiency on 25th August 2021.
- Classes were carried out for the NET and GATE examinations. Interested aspirants were regularly doing doubt clearing classes.
- IIT JAM coaching classes for the subject Biotechnology are being taken by Mr. Srimay Pradhan and Mrs. Bhagyeeswari Behera.
- Students have been provided Company Customized Training.
- Computer Coding
- Job Readiness Classes
- Video Resume Sessions
- GD & PI Training
- Arranging for the students to participate in the events for exposure to the current technical knowledge like HACKATHON events, webinars, and expert talks are arranged at the department level.
- Students were trained with scripting and with production techniques to train them with skills required for the industry.

Student Mentoring

- Mentors were advised to interact with parents and inform them about the academic updates and personal problems of mentees are being followed strictly.
- All the mentors were advised to take feedback and their experience regarding the domain, curriculum of final year student
- All the mentors were advised to take feedback regarding Online Class Issues, Subject Registration Issues, and course fees.
- Mentors are advised to communicate with parents of students who have less attendance.
- Mentors are advised to communicate with parents regarding dues.
- Mentoring was done for SoAS by faculty members for B.Sc and M.Sc students as follows.
 - B.SC 3rd sem – G.Purohit (Physics)
 - B.SC 5th sem – S.Sarangi (Physics)
 - M.SC 3rd sem GP-1- S.Satpathy
 - M.SC 3rd sem GP-2- S.Behera
 - B.SC 3rd sem – Mr. Sasi Bhusan Padhi (Mathematics)
 - B.SC 5th sem – Dr. Swarnalata Jena (Mathematics)
 - M.SC 3rd sem – Mrs. Saubhagyalaxmi Singh (Mathematics)
- Mentoring class was carried by each faculty once a week and reports were sent to the HOD of The Department and the IQAC Co-ordinator at the end of the month.
- For every 40 students, there is a mentor assigned. Mentors regularly interacted with parents and informed about academic updates and personal problems of mentees in this Covid Pandemic Situation.
- All the mentors were also advised to interact with parents as well as students regarding current semester teaching and learning updates in online mode.
- Coding classes were conducted for the final year student in online mode.
- Student curriculum feedback collection as per the requirement of the BOS activity.
- Student mentorship activities involved zoom sessions among the mentors and students regarding Credit completion for the final year students, Compliance with the subject registration activities, Motivating students to attend placement classes, student participation for the internship programs, Student exit survey collection.

Student Satisfaction Survey

- Online feedback for different subjects was taken from Students through ERP.
- Class monitoring by HoD was conducted to analyze the understanding level of students for a particular subject.

Faculty and Staff Welfare:

- All the faculty and staff members were notified to come to campus as per department of higher education guidelines and if anyone is having any type of covid symptoms, then he/she can work from home after taking permission from HoD/Dean/VC.

- Free Vaccination drives were conducted at regular intervals for all employees and students at our Community Diagnostic Center by the School of Paramedics and Allied Health Sciences.
- There is an interaction of Provost with all faculty members regarding academic problems and also the spares some moments with them.
- Teachers' day was celebrated on 5th Sept. 2021 by students.
- Dr. Rukmini Mishra attended a One Day Workshop at Forest College and Research Institute, Mulugu, Hyderabad, 9th August 2021.
- Dr. Rukmini Mishra, Dr. Suhas Sutar, and Mr. Srimay Pradhan attended four days of workshop on "Nanopore Sequencing" from 22nd to 25th August 2021.
- Dr. Kalpita Bhatta has been invited as a keynote speaker in UNFSS independent dialogue on climate change, gender inequalities, and food security organized by NaraSingh Choudry College, Jajpur, Odisha, India, and GCSAYN on 21st August.
- Dr. Kalpita Bhatta has been invited as Keynote Speaker and Presentation in UNFSS independent Dialogue on Ecosystem Services and Sustainable Food System in Asia organized by Narasingh Choudhury Autonomous College, Jajpur, and Odisha. India and GCSAYN on 5th September.
- All the faculties from the mechanical department have been attended in-house CFD training fdp online by Dr. Sekhar Majumdar.

Awards Received:

- Dr. Dojalisa Sahu was awarded as Distinguished Achiever Award 2021 from Centurion University in the provost conclave on 5th Sept. 2021.
- Dr. Susanta Kumar Biswal received International Teacher Award 2021 from International Research Association, London, England, and United Kingdom on 12th July 2021.
- Dr. Susanta Kumar Biswal was elected as Vice President of Indian Association of Nuclear Chemists and Allied Scientists (IANCAS), Eastern Region (Odisha, West Bengal and Andhra Pradesh) with President, Dr. K. K. Nanda, Director, IoP, and Bhubaneswar. The head quarter of IANCAS is at Bhabha Atomic Research Centre (BARC), Mumbai.
- Dr. Pratap Chhotaray was felicitated by Science Club ILLUMINATI for acting as a jury member on the occasion of various competitions held for National Science Day that was celebrated on 21st September 2021.
- Dr. Dojalisa Sahu has been awarded the certificate of excellence in Reviewing from the Asian Journal of Applied Chemistry Research.
- Dr. Dojalisa Sahu has been awarded the certificate of excellence in Reviewing from the Asian Journal of Chemical Sciences.
- Dr. Dojalisa Sahu has been awarded the certificate of Reviewing from Inorganic Chemistry Communications.
- Dr. Susanta Kumar Biswal received International Scientist Award 2021 On Engineering, Science, and Medicine from VD Good Technology Factory, Trivandrum, India in August 2021.
- Dr. Susanta Kumar Biswal was selected as a fellow member of the Hong Kong Chemical, Biological & Environmental Engineering Society (HKCBEES) in July 2021.
- Dr. Rukmini Mishra received the Eminent Achiever Award on 5th September 2021 from Centurion University of Technology and Management.

- Mrs. Swarna Prabha Jena Received an award of an innovative research award from Dr. R.K. Padhi at Provost Research Conclave 2021 on 5th Sept 2021.
- Prof.(Dr.) Sujata Chakrabarty received Abdul Kalam Chair Professor Award in the Provost Research Conclave – 2021 on 5th September 2021, Centurion University of Technology and Management, Odisha.
- Prof (Dr.) Sujata Chakravarty achieved AD Scientific Index, Engineering & Technology, World Scientist and University Rankings 2021, 21835 in India.
- Two faculties from CSE Dept. have completed and were awarded Ph.D. on 14th August 2021 from KIIT Deemed to be University.
Prof. Mamata Gadanayak
Prof. Shreela Dash
- Dr. Madhumita Das received the ‘Eminent Achiever Award’ during the Annual Provost Research awards 2021.
- Mr. Bikash Ranjan Jena got the opportunity to elect as an “Editorial Board member” in the Indian Journal of Pharmacy and Pharmacology (IJPP), Innovative Publications, (Official Publication of Innovative Education and Scientific Research Foundation).

3. Research Innovations and Extension

3.1 Research and Publication

- One research paper and two book chapters of Dr. Tapan Dash,
- Two research papers of Dr. Santosh Satpathy ,
- Four research papers of Dr. S.Sarangi,
- One book chapter papers of Dr. Gangadhar Purohit,
- One book chapter papers of Dr. N.Nayak
- Two research papers of Dr. S.R.Panda, and
- Two research papers of Dr. S.L.Behera were published.
- Dojalisa Sahu and S.K.Biswal, “Studying the effects of Cu doping on structure and photoluminescence properties of SnO₂ Nanoparticle with its effectiveness towards the mineralization of toxic industrial dye”, ESC Journal of Solid-state science and technology on 8th July 2021.
- Kamal Kumar Barik, Smruti Ranjan Panda, Sachikanta Nanda, Jagadish Kumar Tripathy, Pratap K Chhotaray, Ramaswami Annadurai, Siba Prasad Mishra, Debasish Mitra, "GIS-based saltwater vulnerability mapping of the northern coast of Odisha, East coast of India" Arabian Journal of Geosciences, 14, pp.1365-1376, July 2021-10-29.
- Pratap K. Chhotaray, Soumyakanta Prusty, Kamalakanta Behera and Srikanta Sahu, Investigation of Solubility Parameter of Ionic Liquids through Molecular Dynamics Simulation, IJONS,12(67), PP.32434-32439, August 2021.
- Dr.Bidyut Kumar Kundu’s research article entitled “Modulation of catalytic and biomolecular binding properties of ruthenium (II)-arene complexes with the variation of ligands for selective toxicity against cancerous cells” has been accepted for publication in polyhedron Journal (SCI).
- Dr.Bidyut Kumar Kundu has authored a book chapter entitled “Mechanistic Advances of Metal-Organic Frameworks Assisted Chemical Sensors” that has been accepted for publication in ACS Books.

- Dr. Bidyut Kumar Kundu has authored a book chapter entitled "THz Image Processing and its Applications" that has been published in the generation, detection, and processing of Terahertz signals (ISBN-978-981-16-4947-9) owned by Springer publications.
- Dr. Shraban Kumar Sahoo and Dr. Arun Kumar Pradhan have published a research paper entitled as Bio-Hydrothermal synthesis of ZnO-ZnFe₂O₄ nanoparticles using psidium guajava leaf extract: Role in waste water remediation and Plant immunity, *Journal of Cleaner Production*.
- Gagan Kumar Panigrahi · Shравan Kumar Sahoo · Annapurna Sahoo · Shibasish Behera · Snigdharani Sahu, Archana Dash · Kunja Bihari Satapathy, Bioactive molecules from plants: a prospective approach to combat scars-CoV-2, *Advances in Traditional Medicine*, July 2021.
- Amrita Palai, Dojalisa Sahu, Nihar Ranjan Panda, Novel ZnO blended SnO₂ nanocatalysts exhibiting superior degradation of hazardous pollutants and enhanced visible photoemission properties, *Journal of Molecular Structure*, 1244, August-2021.
- Dojalisa Sahu, S Pati, NR Panda, D Das, Effect of incorporation of magnetization in antiferromagnetic Cr₂O₃ by mechanically alloying with -Fe nanoparticles, *MATERIAL LETTER*, 300, July 2021
- Dojalisa Sahu; Amrita Palai; Nihar Ranjan Panda, Electrical conduction mechanism in nanocrystalline ZnO induced by donor/acceptor doping, *JOURNAL OF MATERIAL SCIENCE: MATERIAL IN ELECTRONIC*, 37, July 2021.
- Chittaranjan Routray, Achyuta Nanda Acharya, Biranchinarayan Tosh, In situ synthesis and characterizations of ZnO nanoparticles modified cotton fiber, *Science, Technology and Development*, 10:12, July 2021.
- Yashaswi Nayak Deepanwita Kar, Atia Arzoo, EFFECT OF ORGANIC MANURE ON GROWTH AND DEVELOPMENT OF AMUR CARP, *GIS Science*, 8:7, July 2021.
- Atia Arzoo, Nibedita Badajena, "A review on phytochemicals present in *Ocimum sanctum* and its medicinal property", *International Journal of Botany studies*, 6:4, July 2021.
- Bhagyeeswari Behara, Kunja Bihari Satapathy* Floristic inventory of hydrophytes with special reference to their Ethnomedicinal uses in Khordha district of Odisha. *International Journal of Botany Studies*. 2455-541X.6-4. August 2021. Web of Science. Published
- Bhagyeeswari Behera, Kunja Bihari Satapathy. Diversity and Distribution of Aquatic Plants in Khordha, Odisha, India. *Ambient Science*. National Cave Research and Protection Organization, India 2348 5191, 8-2, September 2021. Accepted.
- Suchismita Samal, Sagarika Parida*. Major Fungal Diseases of Rice: A case study, *Asian Journal of Biological and Life Sciences*, 10-2, September 2021 published.
- Pallavi Jali, Ipsita Priyadarsini Samal, Sameer Jena, Gyanranjan Mahalik*. Morphological and biochemical responses of *Macrotyloma uniflorum* (Lam.) Verdc. to allelopathic effects of *Mikania micrantha* Kunth extracts. *Heliyon*. Elsevier. 2405-8440, 7-8. August 2021 Published.
- Samikshya Jena, Prachi Pratyusha Behera, Ushashee Mandal, Sagarika Parida and Gyanranjan Mahalik*. Medicinal Uses of Rare Endangered and Threatened (RET) Plant Species. *Journal of Plant Development Sciences*. NAAS. 0974-6382. 13-8, August 2021, Published.
- B Jyotirmayee, Sujata Mahapatra, Gyanranjan Mahalik*. Comparative Analysis of Rhizospheric Bacteria

Associated with Four Medicinal Plants. Asian Journal of Biological and Life. PBS PUBL, NO 47 AYODHYA NAGAR, PALLIPPURAM Sciences, 2278-5957. 10-2. August 2021.

- Srimay Pradhan, Dallip Kumar Upreti, Kunja Bihari Satapathy. Lichen Diversity on Shorea robusta Gaertn. in the Transitional Zone of Similipal Biosphere Reserve Ambient Science. National Cave Research and Protection Organization, India 2348 5191. 8-2. August 2021 Accepted.
- Debasmita Das, Rukmini Mishra. SNP Markers and its Impact on Crop Improvement. Asian Journal of Biological and Life sciences. September 2021. Web of Science 2021.
- Sunanya Das, Rukmini Mishra. Next-generation sequencing technologies towards the exploration of medicinal plants. Journal of Experimental Biology and Agricultural Sciences. 2320 – 8694.9-4. August 2021, Published.
- Sutar Suhas Bharat, Sonupriya Sahu, Shubhranshee Sanshlisha Sahu, Pratyasha Mohanty, Satyabrata Nanda, Rukmini Mishra. RNA Interference: A Functional Genomics Approach for Plant Disease Management. Asian Journal of Biological and Life sciences. 10-2. August 2021, Published.
- Kalpita Bhatta, Bhagyajyoti Baral and Mahima Behura. Impact of Fly ash on growth Parameters of Vigna radiata L. International Journal of Biosciences. ISSN: 2220-6655. September 2021 accepted.
- From July 2021 to September 2021 the faculty members of the department communicated research articles in various journals of repute. Some of the research articles were accepted and some of them are published in Scopus indexed, Web of Science, and UGC journals.
- 02 number of articles were contributed and published in GIS Science Journal (UGC Care Group II) by Dr. Yashaswi Nayak.
- 02 number of articles were communicated to SCIE Journal by Mrs. Sunita Sathapaty.
- 04 number of articles were communicated to SCIE Journal by Dr. Siba Prasad Parida which is under revision.
- 02 number of articles were communicated and published in Scopus indexed journal by Mr. Gagan Kumar Panigrahi.
- 02 number of articles were communicated, 1 in SCIE indexed journal and 01 in SCI and another 1 communicated to Scopus indexed journal by Dr Bibhudutta Mishra.
- 01 Research article is communicated to SCI Journal by Mr. Pradip Kumar Prusty.
- 01 number of articles was communicated to Scopus indexed Journal by Dr. Sitaram Swain.
- Manas Ranjan Padhi, Shubham Chakraborty, Performance analysis of Variable Compression Ratio Engine using Argemone Mexicana Biodiesel, Turkish Online Journal of Qualitative Inquiry (TOJQI) Volume 12, Issue 9, August 2021: pp.1415-1421.
- Review on Deep Learning-Based Automatic Detection of COVID-19 from Chest-X Ray Images.- Journal of Applied Science and Technology, SCIENCEDOMAIN international Aug 2021 (UGC/NAAS Indexed)
- 2. Facial Expression Recognition Using Python Using CNN Model Journal of Applied Science and Technology, SCIENCEDOMAIN international Aug 2021 (UGC/NAAS Indexed)
- Rajabathar, J.R.; Al-Lohedan, H.A.; Arokiyaraj, S.; Issa, Z.A.; Dash, C.S.; Murugesan, S.; Khadheer Pasha, S.K.; Al-dhayan, D.M.; Appaturi, J.N. Characterization of Pure Rutile Titania Nanoparticle Prepared by Feasible Method for Coatings and Visible Light-Driven Dye Removal application. Coatings 2021, 11, 1150. <https://doi.org/10.3390/coatings11101150> (SCI-IF - 2.881)

- Shikha Sahu and Harish Chandra Mohanta, A Pine Shaped Dual-Band Frequency Reconfigurable Antenna, Journal of Engineering Research and Reports, 20(12): 42-52, 2021; Article no.JERR.72270
- Chinmayee Dora An optimized KELM approach for the diagnosis of COVID-19 from 2D-SSA reconstructed CXR Images, Optik. 2021 Jul 7, 167572. (SCI-IF -2.48)
- Chinmayee Dora , Analysis of Versions of the RX Algorithm for Anomaly Detection in Hyperspectral Images, Current Journal of Applied Science and Technology, 40(21): 25-31, 2021; Article no.CJAST.73180 ISSN: 2457-1024.
- Chinmayee Dora, Single-Channel EEG Signal Enhancement in Presence of EMG artifact using ELM-based Regressor, 8th International Conference on Smart Computing and Communications (ICSCC), September 2021.
- Chinmayee Dora Study on the effect of socioeconomic status of the family on the primary dentition of neonates in the Ganjam district, Odisha, Indian Journal of Public Health Research & Development (Accepted).
- A Patent on “Intelligent system for Satellite communication from Mobile devices to public land mobile networks using IoT and Metod and THEREOF”, application number-202141033481, date of filing-26.07.2021, publication date-06.08.2021 (By Dr. Harish Ch Mohanta).
- A Patent on “An Image analysis device using Deep learning Data modeling THEREOF”, application number- 202141038588, date of filing- 25/08/2021, publication date -03.09.2021 (By Dr. Harish Ch Mohanta)
- A hybrid statistical model to the distributed server on cloud computing environment (Published)
- A connector module for a VLSI Circuit with a battery pack. (Dr. Harish Ch Mohanta) (Status Filed.)
- A novel multimodal medical image fusion system with pixel-level fusion (Dr. Chandra Sekhar Dash) (status Filed.).
- Rama Prasanna Dalai has published a SCOPUS indexed Journal in August 2021 and also presented a paper in the AICTE sponsored Transcon-2021 in August 2021.
- Nimay Chandra Giri has published 1 NAAS Indexed Journal and also presented a paper in the AICTE sponsored Transcon-2021 in August 2021.
- Dr. Rajendra Kumar Khadanga presented 2 conference papers in AICTE sponsored Transcon-2021.
- Swakantik Mishra presented 2 conference papers in AICTE sponsored Transcon-2021.
- Dr. Amit Kumar Sahoo presented 2 conference papers in AICTE sponsored Transcon-2021.
- Satyabrata Dash, Sujata Chakravarty, Sachi Nandan Mohanty, Chinmaya Ranjan Pattanaik, Sarika Jain, A Deep Learning Method to Forecast COVID-19 Outbreak, New Generation Computing SCI, Springer,0288-36352 (Published)
- Sasmita Kumari Nayak and Jharna Majumdar, Hybrid Method of Video Shot Segmentation Based on YCbCr Space Color Model, Journal of Engineering Research and Reports, 2582-29263 (published)
- Sasmita Kumari Nayak, Mamata Beura, Mohammed Siddique and Siba Prasad Mishra, Analysis of Indian Food Based on Machine learning Classification Models, Journal of Scientific Research & Reports, 2320-02274
- Mamata Garanayak, Suvendu Kumar Nayak, a Recommendation system for music based on content and popularity International journal of Information system and design IGI GLOBAL 1947-8186

- Dayal Kumar behera, Shreela dash Extreme Gradient Boosting and Soft Voting Ensemble Classifier for Diabetes Prediction,19th OITS International Conference on Information Technology (OCIT) (Accepted)
- Sangram Keshari Swain Bikash Kumar Samantaray Waste to Wealth Management RESPONSIBLE AND SUSTAINABLE PAPER WASTE MANAGEMENT National, Amazon Kindle- Self Publishing
- Sangram Keshari Swain Bikash Kumar Samantaray Waste to Wealth Management ELECTRONICS WASTE AND ITS SUSTAINABLE MANAGEMENT National, Amazon Kindle- Self Publishing
- Dr. Dillip Rout Exploring the Usage of Data Science Techniques for Assessment and Prediction of Fashion Retail - A Case Study Approach Artificial Intelligence and Data Science for Recommendation Systems: Current Trends, Technologies and Applications International -Bentham Science Publishers
- Dr. Sabyasachi Dey published an article titled “An Empirical Study on Customer Retention in Health Insurance Sector in Odisha”: IITM Journal of Business Studies (UGC CARE Group I indexed), Volume 9, Issue 1, 2021, ISSN NO 2393-9451, and pp. 55-62.
- Dr. Sisir Ranjan Dash published an article titled “Woman means the body: A patriarchal ideology during Partition presented in Ice-Candy-Man”: Anvesak (UGC CARE), Volume 51, Issue 2, 2021, ISSN NO 0378-4568.
- Dr. Umakanta Nayak published an article titled “The relation of workplace spirituality with employee creativity among Indian software professionals: mediating role of psychological empowerment”: South Asian Journal of Business Studies, Available at <https://doi.org/10.1108/SAJBS-08-2020-0270>, ISSN NO: 2398-628X.
- Dr. Bibhunandini Das published an article titled “Is Distance to Secondary School a Barrier to Secondary and Higher Education in India?”: Millennial Asia, Available at <https://doi.org/10.1177/09763996211035073>, ISSN NO: 0976-3996.
- Dr. Supriya Pattanayak and Dr. Smita Mishra Panda- Rs 15 Lakhs-ICSSR Major- Development Project Induced Changed Bio-capacity and Social Capital on Natural Resource-Based Livelihood Security of People of Odisha.
- Dr. Bibhunandini Das and Dr. Madhumita Das- Rs 14, 70,000- Major ICSSR project-Socio-Economic Vulnerability of Women Migrant Workers: A Study in the Migrant Prone Districts of Odisha.
- Dr. Sisir Ranjan Dash- Rs 4.74 Lakh, Minor ICSSR project- Applicability of Globalization Indices in Improving Curricula & Forecasting: A Critique of Key Debates.
- Dr. Smita Mishra Panda and Dr. Supriya Pattanayak - Rs13.5 lakh- Natural Resource-Based Livelihood Security among Rural Communities in Odisha: Possibilities of Green Growth.
- Dr. Bibhunandini Das and Dr. Umakanta Nayak -Rs 8.36 Lakh- Political Representation Bs Empowerment of Women Local Government Representatives in Odisha.
- Dr. Madhumita Das and Dr. Bibhunandini Das -Rs 14 lakh- Leveraging Livelihood Strategies to Support Conservation: A case of Bhitarkanika Wildlife Sanctuary Vis a Vis Sunderban Biosphere Reserve.
- Dr. Sabyasachi Dey and Dr. Debi Prasad Satapathy- 8.30 Lakh- Impact of Low GI Rice Production on Farmer’s Socio-economic condition in Gajapati District of Odisha.

- Dr. Sisir Ranjan Dash, Dr. Prajna Pani, and Dr. Sujata Chakravarthy -15 lakh- Environmental Impact Assessment of Hybrid Learning System in Higher Education: A Cost-Benefit Analysis in Bhubaneswar.
- Dr. Ambika Sankar Mishra completed 1 issue of Centurion Journal of Multidisciplinary Research as issue editor
- Dr. Ambika Sankar Mishra submitted one project proposal to ICSSR and Other to Azim Premji Foundation
- Monali P. Mishra *, Sunil K Jha published a paper “Prevalence of Gram-negative uropathogens with antibiogram study in a tertiary care hospital in Eastern India” in Indian Journal of Natural Sciences, 2021, ISSN No. 0976 – 0997.
- S. Chakrabarty*. has published a paper “In silico Molecular docking study of Chicoric acid from *Ocimum sanctum* (Tulsi) working against *Achromobacter xylosoxidans* causing Bronchitis.” In Indian Journal of Natural Sciences, 2021, ISSN No. 0976 – 0997.
- S. Chakrabarty*. has published a paper “In silico Molecular Docking studies of Oleanolic acid from *Cichorium intybus* (chicory) against *Yersinia pestis* causing Plague..” In Indian Journal of Natural Sciences, 2021, ISSN No. 0976 – 0997.
- Monali P. Mishra *, Sunil K Jha have published a paper “Wound healing activity of phytochemical Coumarin against Alkaline protease from *Pseudomonas aeruginosa*: An insilico approach.” In Indian Journal of Natural Sciences, 2021, ISSN No. 0976 – 0997.
- Sangeeta Chhotaray, Soumya Jal*. have published a paper “Prediction of Antiviral activity of *Elettaria cardamomum* targeting SARS-Co-V-2 using Computational Docking Techniques.” In Indian Journal of Natural Sciences, 2021, ISSN No. 0976 – 0997.
- Sangeeta Chhotaray, Madhusmita Parida, Soumya Jal*. have published a paper “In silico screening of Phytochemicals from *Nigella sativa* for its potential therapeutic roles targeting SARS-Co-V-2.” In Indian Journal of Natural Sciences, 2021, ISSN No. 0976 – 0997.
- Sonali Dash, Sunil K Jha * have published a paper “An In Silico Strategy to Assess the Antibacterial activity of phytochemicals from Fenugreek (*Trigonella foenum- graecum*) against *E. coli*.” In Indian Journal of Natural Sciences, 2021, ISSN No. 0976 – 0997.
- Elementary Framework for an IoT-based Diverse Ambient Air Quality Monitoring System, by Jitendra Pramanik, published in *Multimedia Tools and Applications*, Springer.
- Machine Learning Application in Primitive Diabetes Prediction - A Case of Ensemble Learning, by Jitendra Pramanik, accepted in LNNS.
- An Insight into Mechanical & Thermal Properties of Shape Memory Polymer Reinforced with Nanofillers; A Critical Review, by Somalika Pradhan, published in *Materials Today: Proceedings*, Elsevier.
- Investigation of mechanical properties of PVA and cellulose bio composite, In silico analysis using BIOVIA, by Somalika Pradhan, *ADB Journal of Engineering and technology*.
- Evaluation of Cell Parameter Variation on Energy Absorption Characteristic of Thermoplastic Honeycomb Sandwich Structure, by Nitesh Dhar Badgayan, published in *Arabian Journal for Science and Engineering*.
- Mohammed Siddique, Tumbanath Samantara, and Dr. Siba Prasad Mishra Hybrid Prediction Model of Kernel Principal Component Analysis, Support Vector Regression and Teaching Learning Based

Optimization Techniques, Current Journal of Applied Science and Technology 40(20): 17-25, 2021; Article no. CCAST.72779.

- Nimay Chandra Giri, Dr. Siba Prasad Mishra, Subhashree Choudhury, Bishnu Prasad Mishra, H.Vennila, and Mandapati Roja Pragmatic Shift from Conventional to Solar Off-Grid Access to Electricity in Isolated Places, Current Journal of Applied Science and Technology 40(23): 34-40, 2021; Article no.CCAST.73641.
- Dr. Siba Prasad Mishra Pyro Geography and Indian Quest during Anthropocene to COVID-19 International Journal of Environment and Climate Change 11(7): 133-149, 2021; Article no. IJECC.72931.
- Dr. Siba Prasad Mishra, Madhurima Das and Saswat Mishra Review of the Valorization of Normalized Red Mud as Environmentally Sustainable Waste Management, 40(24): 57-69, 2021; Article no. CCAST.74063.
- Smruti Ranjan Panda, Dr. Siba Prasad Mishra, Jagadish Ku. Tripathy, Kamal Kumar Barik The Failed Resilience, Grim Water Future, and Salinity Intrusion through GIS of Kendrapara Coast, Odisha, International Journal of Lakes and Rivers. ISSN 0973-4570 Volume 14, Number 2 (2021), pp. 161-181.
- Dr. Kamal Kumar Barik & Smruti Ranjan Panda & Sachikanta Nanda & Jagadish Kumar Tripathy & Pratap K. Chhotaray & Ramaswami Annadurai & Siba Prasad Mishra & Debasish Mitra, GIS-based saltwater vulnerability mapping of the northern coast of Odisha, East Coast of India, Arabian Journal of Geosciences (2021) 14:1365.
- Nupur Prithviraj, Jagadish Kumar Tripathy, Smruti R Panda, and Dr. Kamal Kumar Barik, Quality assessment of groundwater in the western parts of Chhattisgarh (Rajnandgaon district), India, Poll Res. 40 (1): 97-103 (2021).
- Dr. Kamal Kumar Barik, Prakash Chandra Mohanty, Sachikanta Nanda, Annadurai Ramasamy & Ranganalli Somashekharappa Mahendra, Earth Observation Technique-Based Coastal Vulnerability Assessment of Northern Odisha, East Coast of India Journal of the Indian Society of Remote Sensing, 49, 293–303 (2021).
- Dr. Siba Prasad Mishra, Dr. Kamal Kumar Barik, Sanjeeb Kumar Pattanaik, The Vulnerability and Management to the Blue Carbon Ecosystem: Coastal Odisha International Journal of Lakes and Rivers. ISSN 0973-4570 Volume 14, Number 1 (2021), pp. 43-70.

3.2: Teachers awarded National/International fellowship for advanced studies /research during the year:

- Dr.Bidyut Kumar Kundu has got an International fellowship for advanced study (Post.Doc) in the Department of Chemistry, University of Cincinnati, the USA in Sept.2021.
- Dr. Rukmini Mishra certified one innovation Patent Title of the invention: “METHOD FOR MOLECULAR MAPPING AND DEVELOPING DIAGNOSTIC MARKERS FOR DETECTING ANTHRACNOSE RESISTANCE IN CHILI PEPPER”.

3.3: Research Publications in the Journals notified on UGC website

- Dojalisa Sahu and S.K.Biswal, “Studying the effects of Cu doping on structure and photoluminescence properties of SnO₂ Nanoparticle with its effectiveness towards the mineralization of toxic industrial dye”, ESC Journal of Solid-state science and technology on 8th July 2021.

- Kamal Kumar Barik, Smruti Ranjan Panda, Sachikanta Nanda, Jagadish Kumar Tripathy, Pratap K Chhotaray, Ramaswami Annadurai, Siba Prasad Mishra, Debasish Mitra, "GIS-based saltwater vulnerability mapping of the northern coast of Odisha, East coast of India" *Arabian Journal of Geosciences*, 14, pp.1365-1376, July 2021-10-29
- Pratap K. Chhotaray, Soumyakanta Prusty, Kamalakanta Behera and Srikanta Sahu, Investigation of Solubility Parameter of Ionic Liquids through Molecular Dynamics Simulation, *IJONS*,12(67), PP.32434-32439, August 2021
- Dr.Bidyut Kumar Kundu's research article entitled "Modulation of catalytic and biomolecular binding properties of ruthenium(II)-arene complexes with the variation of coligands for selective toxicity against cancerous cells" has been accepted for publication in *Polyhedron Journal*(SCI)
- Dr.Bidyut Kumar Kundu has authored a book chapter entitled "Mechanistic Advances of Metal-Organic Frameworks Assisted Chemical Sensors" that has been accepted for publication in *ACS Books*
- Dr.Bidyut Kumar Kundu has authored a book chapter entitled "THz Image Processing and its Applications" that has been published in the generation, detection, and processing of Terahertz signals (ISBN-978-981-16-4947-9) owned by Springer publications.
- Dr.Shraban Kumar Sahoo and Dr.Arun Kumar Pradhan have published a research paper entitled as Bio-Hydrothermal synthesis of ZnO-ZnFe₂O₄ nanoparticles using psidium guajava leaf extract: Role in waste water remediation and Plant immunity, *Journal of Cleaner Production*
- Gagan Kumar Panigrahi · Shrabana Kumar Sahoo · Annapurna Sahoo · Shibasish Behera · Snigdharani Sahu, Archana Dash · Kunja Bihari Satapathy, Bioactive molecules from plants: a prospective approach to combat SARS-CoV-2, *Advances in Traditional Medicine*, July 2021
- Amrita Palai, Dojalisa Sahu, Nihar Ranjan Panda, Novel ZnO blended SnO₂ nanocatalysts exhibiting superior degradation of hazardous pollutants and enhanced visible photoemission properties, *Journal of Molecular Structure*, 1244, August-2021
- Dojalisa Sahu, S Pati, NR Panda, D Das, Effect of incorporation of magnetization in antiferromagnetic Cr₂O₃ by mechanically alloying with -Fe nanoparticles, *MATERIAL LETTER*, 300, July 2021.
- Dojalisa Sahu; Amrita Palai; Nihar Ranjan Panda, Electrical conduction mechanism in nanocrystalline ZnO induced by donor/acceptor doping, *JOURNAL OF MATERIAL SCIENCE: MATERIAL IN ELECTRONIC* , 37, July 2021
- Yashaswi Nayak Deepanwita Kar, Atia Arzoo, EFFECT OF ORGANIC MANURE ON GROWTH AND DEVELOPMENT OF AMUR CARP, *GIS Science*, 8:7, July 2021.
- Atia Arzoo, Nibedita Badajena, "A review on phytochemicals present in *Ocimum sanctum* and its medicinal property", *International Journal of Botany studies*, 6:4, July 2021.
- Eight papers were published and three papers were accepted in the journals notified on the UGC Website.
- 2 Research articles are published in *GIS Science Journal*.
- Prophecy of Stock Price of Bharat Immunological & Biological Corporation Ltd using Hybrid ANN and PSO Model, *Journal of Economics, Management and Trade*; Vol-27, Issue-4, Page: 27-35, ISSN No: 2456-9216 (NAAS)-July-2021
- Analysis of Indian Food Based on Machine learning Classification models; *Journal of Scientific Research & Reports*, ISSN No: 2320-0227, Vol-27, Issue-7, Page:1-7 (2021) (NAAS)-July-2021

- A Hybrid Prediction Model of Kernel Principal Component Analysis, Support Vector Regression and Teaching Learning Based Optimization Techniques, Current Journal of Applied Science and Technology, Vol. 40(20), ISSN No: 2457-1024, Page:17-25 (2021) (NAAS)- July-2021
- Cutting Force Measurement in Turning of Aluminium Alloy using Taguchi method; Indian Journal of Natural Sciences, Vol. 12(67), ISSN No: 0976 – 0997, Page- 33382-33386 (2021) (WoS)-Aug-2021
- Granted patent: Smart framework for providing privacy and protection in block chain based private transactions using cloud computing approach, IP Australia Patent Number- 2021104564, Granted on 8th September 2021.
- Intelligent system for satellite communication from a mobile device to public land mobile networks using IOT & methods thereof, IP India Application Number- 202141033481, Published on 06th August 2021.
- “Radiative and Convective Heat Transfer on MHD Stagnation point Nanofluid Flow past a Stretchable Surface with Melting”, AIP Conference Proceedings (Accepted) (SCOPUS).
- “Radiation, Chemical Reaction and Dissipative Effects on MHD Stagnation Point Nano-Fluid Flow past a Stretchable Melting Surface”, AIP Conference Proceedings (Accepted) (SCOPUS).
- Dr. Swarnalata Jena has Published 1 research paper entitled “An investigation on Non-Darcy nanofluid flow due to the interaction of inclined magnetic field and nonlinear radiation” in GANITA(UGC care) (Vol.71(1), 2021, 215-220).
- Mrs. Saubhagyalaxmi Singh has Communicated 1 research paper entitled on a Geometric sequence ideal Communicated to the South East Asian Journal of Mathematics and Mathematical Sciences.
- Total 13 numbers of articles from SoPLS were accepted and published in various index journals from July to September.
- Total 03 numbers of Book chapters are accepted and published in July to September.

3.4: Faculty participation in Seminars/Conferences and Symposia:

- Dr. P.Pataik and Dr. T.Dash attended a webinar on Innovation and Intellectual Property Management in HEIs organized by the Center for Innovators and Entrepreneurs, Centurion University of Technology and Management, on 2nd Aug’ 2021.
- Dr. P.Pataik and Dr. T.Dash completed and received the certificate of the 'Innovation Ambassador (IA) Training Program' of the Ministry of Education's Innovation Cell and AICTE.
- All faculty attended a webinar on National Education Policy 2020 organized by Centurion University along with the FICCI FLO Bhubaneswar chapter on 16th September 2021.
- Dr.P.Patnaik attended a virtual FDP on 'Advances on Instrumental Techniques for identification and characterization of Materials' organized by the Department of Chemistry, Siksha 'O' Anusandhan in Association with the Society for Advancement of Chemical Sciences and Education (SACSE) Kalpakkam, from 20th to 24th September 2021.
- All faculty members attended the webinar “Trichoderma: A possible option to solve the problem of stubble burning" on 05th July 2021 from 3 pm to 4 pm by Dr. Amitava Rakshit, Associate Professor, Department of Soil Science and Agricultural Chemistry, Institute of Agricultural Science, Banaras Hindu University, organized by the center for waste to wealth, CUTM, Odisha
- Dr.Bidyut Kumar Kundu attained the XRD for Research and Orthogonal Data Analysis Workshop held on 6-7 July 2021 jointly organized by Malvern Panalytical & IIT Jammu

- Ms. Suchismita Acharya attended Webinar on “Aquifer Mapping and Groundwater Management”, jointly organized by the Department of Civil Engineering, CUTM, and Central Ground Water Board (CGWB), on 14.07.2021 between 9.30 AM and 1.30 PM, to commemorate 75th year of India’s Independence.
- Faculty members attended the webinar on “Innovation and Intellectual Property Management in HEIs” on 2nd Aug’ 2021, Monday at 3 PM through zoom link.
- Dr. Bidyut Kumar Kundu and Dr. Srikanta Sahu attended the webinar on navigating the retail ecosystem-organized by Centurion University of Technology and Management and FICCI-FLVBhubaneswar Chapter on 18th August 2021.
- Faculty members attended National Webinar on Research, Innovation, and Ranking on 11th August at 10:30 am as part of the one-year celebration of National Education Policy 2020 (NEP 2020).
- Dr. Sagarika Parida attended “National Education Policy, 2020” organized by Centurion University along with FJCCJFLU, Bhubaneswar Chapter on 16th September 2021.
- Dr. Sagarika Parida attended the “Scientific Writing Workshop” organized by ACS publications in collaboration with Siksha ‘O’ Anusandhan University and National Institute of Technology, Silchar, on 20th August 2021.
- Dr. Sagarika Parida attended the “Journal Citation Reports” series by Clarivate from 8th July to 13th July 2021.
- Dr. Sagarika Parida attended a webinar on “Tricks and Techniques of quick publication” organized by Siksha O Anusandhan University. 8th August 2021.
- Dr. Sagarika Parida attended the webinar on “Cluster Level Swachhta Action Plan Workshop” - organized by Mahatma Gandhi National Council of Rural Education, Ministry of Education, Govt. of India, dated 7th August 2021.
- Dr. Sagarika Parida attended the webinar on “Research Methodology and Project Writing” - organized by Rama Devi Women’s University, dated 7th - 11th July 2021.
- Dr. Kalpita Bhatta participated in an online workshop titled Structure-Based Drug Design on 15th August 2021. Organized by Gene aura Pvt. LTD.
- Dr. Gyanranjan Mahalik participated online webinar has participated in the FDP on “Biotechnology for 21st Century” from 19.07.2021 to 24.07.2021 organized by Marian Star Centre PG and Research Department of Botany St. Mary’s College (Autonomous), Thoothukudi.
- Dr. Gyanranjan Mahalik participated in the National Webinar on “Biodiversity and Conservation: Prospects and Challenges” organized by the Post Graduate Department of Botany, Pocker Sahib Memorial Orphanage College, Tirurangadi, Malappuram, Kerala on 28th July 2021.
- Dr. Gyanranjan Mahalik, participated one a day webinar on the Impact of Virtual Classroom on students’ mental health with special reference to National Education Policy 2020 Held on 24th July 2021 organized by JYOTIRMOY SCHOOL OF EDUCATION, West Bengal, India
- Dr. Gyanranjan Mahalik participated in the National Webinar on “Recent Trends in Plant & Microbial Science for Human Welfare” held on 21st August 2021 organized by PG Department of Botany, Fakir Mohan Autonomous College, Balasore, Odisha, India.
- Dr. Gyanranjan Mahalik has participated in the Short-Term Course on “Leadership Development” held from 23rd to 27th Aug 2021 organized by UGC HUMAN RESOURCE DEVELOPMENT CENTRE, UTKAL UNIVERSITY, VANI VIHAR, and BHUBANESWAR.

- Dr. Bibhudutta Mishra attended the ACS Science talk series on Molecular Modelling Theory and simulation studies of polymeric materials on 17th September 2021.
- All faculty attended a webinar on National Education Policy 2020 organized by Centurion University along with the FICCI FLO Bhubaneswar chapter on 16th September 2021.
- Dr. Gagan Kumar Panigrahi participated in the International Webinar entitled, “Strengthening Your Understanding of Research Journals “(Reading, Referencing and Publishing)” organized by K. J. Somaiya College of Science and Commerce in collaboration with ELSEVIER on 10th July 2021.
- Dr. Goutam Kumar Mahato has participated in AICTE Training and Learning (ATAL) Academy Online Elementary FDP on Artificial Intelligence organized by the University College of Engineering & Technology, Vinoba Bhave, University, Hazaribag, Jharkhand during September 20-24, 2021.
- Dr. Goutam Kumar Mahato has participated in AICTE Training and Learning (ATAL) Academy sponsored one-week FDP on “Computational Fluid Dynamics – A Potential Engineering Design Tool” organized by the Center for Computational Mathematics & Department of Mechanical Engineering Centurion University of Technology and Management, Odisha during July 26 - 30, 2021.
- Prof. Debashree Debadatta Behera, Resource person for webinar Renewable (Solar energy) Future for Entrepreneurs conducted by FLO, Bhubaneswar, and CUTM.
- Prof. Debaraj Rana , has participated in 15 days Webinar Series on Raspberry Pi Master Class, from 28th December 2020 - 13th January 2021 (Evening Session), organized by Pantech Prolabs India Pvt. Ltd, Tamilnadu.
- Prof. Debaraj Rana , has participated in 15 days Webinar Series on AI Master Class using MATLAB, from 18th January to 1st February 2021(Evening Session), organized by Pantech Prolabs India Pvt. Ltd, Tamilnadu.
- Prof. Debaraj Rana , has participated in One month Webinar Series on AI Master Class using Python, from 16th February-17th March 2021 (Evening Session), organized by Pantech Prolabs India Pvt. Ltd, Tamilnadu.
- Rama Prasanna Dalai Attended a workshop on Introduction to Python programming from 15th to 19th July 2021.
- Rama Prasanna Dalai Attended 2 days online workshop on Advanced MATLAB tools and simulinks for power system applications from 26th to 27th July 2021.
- Nimay Chandra Giri (CREE) Attended FDP on Innovative and Inventive Problem Solving (IIPS-2021), 13-7-21 by AICTE.
- Nimay Chandra Giri (CREE) Attended FDP on Recent Trends in Power Electronics, Controllers and Power, 19-7-21 by GMRIT, AP
- Nimay Chandra Giri (CREE) Attended FDP on Emerging Trends in Electrical and Electronics Engineering, 26-7-21 by Hindustan College, Mathura
- Nimay Chandra Giri (CREE) Attended FDP on How to Write Thesis and Research paper (ICT120), 2-8-21 by NITTTR Kolkata
- Nimay Chandra Giri (CREE) Attended FDP on Entrepreneurship Development, ICT 141, 23-8-21 by NITTTR Kolkata.
- Nimay Chandra Giri (CREE) Attended FDP on STRENGTHENING DECENTRALIZED RENEWABLE ENERGY (DRE) ECOSYSTEM IN RURAL INDIA by the institute of Sustainable communities, 13-8-21

- Nimay Chandra Giri (CREE) Attended FDP on Role of Universities In Achieving SDGs by CUTM, 5-10-21.
- Dr. Rajendra Kumar Khadanga Attended an AICTE national conference on Repair and Maintenance of Distribution Transformer from 25th Aug 2021 to 26th Aug 2021.
- Dr. Rajendra Kumar Khadanga Attended a Five-days AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Artificial Intelligence and Machine learning Applications in Electrical Engineering" organized by the Department of Electrical Engineering, CVR College of Engineering, Pocharam, Telangana, held during 9th to 13th August 2021.
- Dr. Rajendra Kumar Khadanga Attended a Five-days AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Peer to Peer Energy Transaction in Smart Distribution Systems" organized by the Department of Electrical Engineering, Vellore Institute of Technology, held from 26th to 30th July 2021.
- Swakantik Mishra Attended an AICTE national conference on Repair and Maintenance of Distribution Transformer from 25th Aug 2021 to 26th Aug 2021.
- Dr. Amit Kumar Sahoo Attended an AICTE national conference on Repair and Maintenance of Distribution Transformer from 25th Aug 2021 to 26th Aug 2021.
- Dr. Amit Kumar Sahoo Attended online FDP on Trends in Measurement and Control for System Automation dated 28th June 2021 to 2nd July 2021 under AICTE Training and Learning (ATAL) Academy at BIT Mesra.
- Dr. Amit Kumar Sahoo Attended online FDP on Emerging Techniques and Applications in IoT dated 9th Aug 2021 to 13th Aug 2021 under AICTE Training and Learning (ATAL) Academy at VSSUT Burla.

3.5: No of Students participating in extension activities with Government Organisations, Non-Government Organisations, and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc.: Nil

4. Resource acquisition

4.1: Faculty requirement and development –

- All faculty members were advised to attend online FDPs /Seminars and Webinars.
- Dr. Gagan Kumar Panigrahi was awarded a Ph.D. on 17th August 2021 from Centurion University of Technology and Management, Bhubaneswar, Odisha. Under the guidance of Dr. Kunja Bihari Satapathy. The Ph.D. thesis title is “**Studies on reprogramming of disease-resistant genes under pathogen challenged conditions in *Arabidopsis thaliana***”.
- Mr. Pradeep Kumar Prusty submitted his Ph.D. thesis on 30th September 2021.
- Training on Unreal gaming software was given to Saban Maharana, Amir Pasha, and Ambika Sankar Mishra.
- Miss. Soumyasree Dutta has joined as Lecturer.
- Miss Itismita Dhal has joined as Lecturer.
- Mrs. Subhashree Panigrahy has joined as Lecturer.
- Mr. Jitendra Gupta has joined as a Lecturer.

4.2: Staff requirement and development –

- One teaching assistant for the M.Sc. lab was appointed in August.

4.3: IT resource

- One virtual room is provided with IT resources.
- Urkund and Turnitin are used for plagiarism scrutiny.
- Nanopore sequencer and genome station were installed in Bhubaneswar and PKD campus.
- All the faculty members were provided the facility of Turnitin to check the plagiarism for publication.
- The courseware has been installed and every faculty member is directed to upload their study materials for online teaching. Minor changes in the syllabus made for the 2021-22 academic year also resulted in subsequent changes made in the courseware by the faculty members.
- Faculty members are using Google meet app and Zoom app to take the classes and record their lectures too for the intercampus classes as the on-campus classes are happening only by offline mode.
- CUTM, Time sheet tracker has been installed centrally so that every employee can submit their daily work report from campus as well as any work done from home beyond office hours to the Management every day.

4.4: Lab/ workshops development (equipment & others)

- Maintenance of all equipment had been done.
- Some research activity initiated by both faculties and M.Tech. scholar in Thermal and EDM lab and 3D printing machine.
- Ph.D. students from ISM Dhanbad, NISER KIIT, ITER, BPUT Rourkela in Advanced Testing Laboratory, Domain students have done the project in the CNC lab.
- IMFA- MMC back filling material block testing in our ATC lab, UTM for compressive test UCS calculation.
- All equipment is in Functional Condition.
- We are using the ARVR lab for developing assets for anatomy and physiology subjects.
- New equipment and chemical list were prepared for various departments of U.G and orders have been placed.
- New labs are designed and developed for various departments of P.G and U.G of Pharmacy.

4.5: Physical Facilities

- Proper classroom and Laboratory is provided for physical classes and experimental work.
- Physical classes commenced from 1st week of August 2021.
- Additional classrooms and an additional faculty room in the Kautilya building are going to be ready by the end of October 2021.

4.6: Library facilities

- Faculty and students were advised to use the E-library facility available on the CUTM website.
- Faculty members involved in domain teaching uploaded their study materials in CUTM Courseware.

- Domain and certificate courses were prepared by faculties of respective subjects and uploaded in CUTM courseware.
- In the Departmental library, all books are available for each subject. For the upcoming academic session books on Aquaculture and Fisheries will be procured for references.
- The faculty members are encouraged to become the club members of NDL (National Digital Library) and all the e-resources of the library can be accessed by them. Faculty members are also accessing the e-resources for the library through the CUTM website as it will count for NAAC and NIRF rankings.

4.7: Facility for E-Content

- Students were asked to refer to the E-content of their respective core and skill subjects.
- Lecture notes and ppt were prepared by faculties of respective subjects.
- Different certificate course & SKILL course was designed and developed by different faculties.
- E-Content is being prepared by the faculty members for their courses handled by them and regularly the contents are updated in the courseware. A team of ten people has been created to review the courseware contents. Dr. Sisir Ranjan Dash and Dr. Sabyasachi Dey are also a part of this team and the courseware contents were regularly reviewed by the review team. Individually the faculty members were called, and the modifications required in their courseware were discussed with them. All the faculty members were instructed to prepare video lectures of at least one course handled by them as the UGC's permission to upload the e-content in the SWAYAM portal was obtained and the Team-SoM also started preparing video lectures each of 45 to 60 minutes duration.

5. Support and Progression

5.1 CSR Activity

- To promote the co-curricular activities of the students CUTM, BBSR has successfully organized the annual function named Gajajyoti and the annual sports event for the academic session.
- Many students from BSc and MSc actively participated in the CSR activities and became winners both in the annual function and the annual sports events.
- Students participated in a parade competition held on the occasion of the Independence day celebration on 15th August 2021
- The student participated in Ganesh Puja on 10th September 2021
- Students participated in various competitions held on the occasion of National Science Day on 21st September 2021
- Sarita Sahoo registration number 200705170033 got 1st position in the painting and 1st position in Rangoli competition for the occasion 15th august 2021
- Sushree Medha registration number 200705170061 got 2nd position in solo dance for Gajajyoti 2021 and participated in Eagle eye and Devil competition for Gajajyoti 2021.
- Puspashree Das, 200705170063, 1st position in science quiz in 28th Feb 2021, and 3rd position in solo song Gajajyoti 2021
- Megha Nanda registration number 200705170082 got 1st position in the slogan, Snigdharani Samantara, 200705170029 got 2nd position in poster making on the occasion of Independence Day.
- Mega blood donation camp was organized on the occasion of world pharmacist day on 25th Sept. 2021 and 228 units of blood were collected.

- The 75th Independence Day "Azadi ka Amrut Mahotsav" is celebrated in Centurion University, Bhubaneswar Campus today. As planned the following competitions were held through virtual mode on the occasion of Independence Day. The winners of the above competitions are mentioned below.
- Social Responsibility: 1st: Sunanda Priyadarshini – 200402100026 (MBA)
- Rangoli Making: 3rd: Kiran Patnaik – 200402100039 (MBA)
- The World Entrepreneur Day falls on 21st August 2021. To celebrate the occasion, The Center for Innovators and Entrepreneurs (CIE) is organizing an event "THE BIG SHOT", an Idea Pitching competition for all students of the Bhubaneswar campus. Sunanda Priyadarshini – 200402100026 (MBA) won the 3rd prize by pitching the business idea on "Wedding Trends".
- Students of SoM also took an active part and participated in the Mega Voluntary Blood Donation Camp held on 25th September 2021.
- On the Eve of World Pharmacist's day blood donation camp has been organized. And poster presentation, PPT presentation competition has been organized for the same. The winner has been awarded.
- Observation of Gandhi & Shastri Jayanti and International Day of Non-Violence: on 2nd October 2021 students and faculty of SOVET have participated in the campus cleaning program and observation of Gandhi & Shastri Jayanti and International Day of Non-Violence.

5.2. Number of awards/medals for outstanding performance in sports/cultural activities at national/international level: Nil

5.3. The activity of Student Council & representation of students on academic & administrative bodies/committees:

- Students represented in placement committee and alumni committee and took an active part in the second virtual alumni meet conducted on 3rd July 2021. They performed activities like anchoring, cultural activities, interaction with the alumni, etc.

5.4. Meetings/activities organized by Alumni Association:

- A second virtual alumnus meet was conducted by Team SoM on 3rd July 2021 in follow-up to the first virtual alumni meet on 12th June 2021. In this meet, the interactions with recent batches were done with whom the interactions could not be done during the first meet due to lack of time.

5.5. Details of campus placement:

- Acadecraft Inc. is a US-registered KPO company specialized in academic content development visited for research associate position with responsibilities like Academic Content Development, Book Authoring, Assessment Creation and the compensation would range between INR. 2.16 LPA to INR. 3.00 LPA. (Fixed+Variable)
- My Dream Garden is a leading urban farming company in India visited online to recruit students for Marketing Executive for its Banaswadi, Bengaluru branch with a package of 2.5 to 3 LPA
- CSS Corp Recruitment, July 2021 for Technical Support Engineer at CTC INR 2.5 Lakhs to INR 3.29 Lakhs per annum for its Chennai / Hyderabad office
- Zifo is a Global BioPharma R&D Services Specialist providing best-in-class R&D solutions and services that drives efficiency across the entire Bio-Pharma R&D spectrum. We provide Scientific Informatics, Lab Informatics, Clinical Biometrics, Regulatory Compliance including Computer System Validation and Genome Informatics Services from global offices across the US, UK, France, Germany, Switzerland,

Japan, China, Singapore, Canada & India has conducted campus recruitment for M.Sc students with salary packages of INR 476,214 PA

- Alembic Pharmaceutical is hiring 2020 & 2021 graduates as Apprentice Trainees with a package of 20000 INR/Month
- Flipkart Wired 5.0 campus recruitment.
- Collabera Virtual Campus Recruitment as Technical Recruiter for all B.Sc and M.Sc students for Vadodara, Gujarat branch
- DXC Technology Recruitment as Senior Assistant - Global Service Desk for all B.Sc and M.Sc students with CTC 2.6 LPA
- Dell Inc. is hiring for an inbound voice process for Bangalore and Hyderabad locations for all B.Sc and M.Sc students with a CTC of INR 2, 25,000 per annum.
- Collabera Virtual Campus Recruitment as Technical Recruiter for all B.Sc and M.Sc students for Vadodara, Gujarat branch.
- DXC Technology Recruitment as Senior Assistant - Global Service Desk for all B.Sc and M.Sc students with CTC 2.6 LPA.
- Two students from MBA and one from MBA-DA (all from 2019-21 batch) were placed at Vedantu.
- Two students from MBA (all from the 2019-21 batch) were placed at Planet Spark.
- Two students from MBA (all from 2019-21 batch) were placed at Rumango Software.
- One student from MBA 2019-21 batch was placed at Xpressbees.
- One MBA DA student from the 2019-21 batch was placed at Gram Tarang Technology.
- 2 students from MBA-Pharma from 2020-22 batch got placed at Manipal Hospital.
- B. Pavan Kalyan from SoET Mechanical got placed in Cognizant GenC.
- Somerik Sen from SoET Mechanical got placed in Cognizant GenC and Alkraft Thermo technologies Pvt. Ltd.
- Debanjan Sen from SoET Mechanical got placed in Cognizant GenC.
- B. Jyoti Prakash from SoET Mechanical got placed in Cognizant GenC.
- Rashmiranjan Rout from SoET Mechanical got placed in Cognizant GenC.
- Laxmi Narayan Das from SoET Mechanical got placed in Cognizant GenC and Alkraft Thermotechnologies Pvt. Ltd.
- MD OLID ILIYAS from SoET Mechanical got placed in Alkraft Thermotechnologies Pvt. Ltd.
- MD JAVED AKHTAR from SoET Mechanical got placed in Alkraft Thermotechnologies Pvt. Ltd.
- Subhangi Patro (180301130005) from SoET ECE got placed in Brillio for the software engineer designation on 7th September 2021.
- Rahul Kumar (180301131010) from SoET ECE got placed in Simform on 23rd September 2021.
- Miss Nabeelah Ahmed from SoET EEE got placed in the Cognizant Technology.
- Mr. Ranjit Bhusan Nayak from SoET EEE got placed in Capgemini Technology.
- Sidharth Sankar Bisoi from SoET CSE got placed in Satrix Information Security in July 2021.
- Rakesh Gahir from SoET CSE got placed in Satrix Information Security in July 2021.
- Soumyaranjan Barik from SoET CSE got placed in Satrix Information Security in July 2021.
- Gopal Ghosh from SoET CSE got placed in Satrix Information Security in July 2021.
- Subhransu Sekhar Bal from SoET CSE got placed in Satrix Information Security in July 2021.

- Dheeman Pati from SoET CSE got placed in AIMDek Technology in July 2021.
- Barsha Sahoo from SoET CSE got placed in HCL Technology in July 2021.
- Dipak Pattanaik from SoET CSE got placed in CSS Corp in July 2021.
- Chirashri Chinmayee Rout from SoET CSE got placed in 7th Heaven Homes in July 2021.
- Rudraprasad Mohanty from SoET CSE got placed in Pyramid Consulting and Accenture (AWS design and build) in August 2021.
- Monalisha Panda from SoET CSE got placed in FIS in August 2021, in Cognizant in September 2021, and Infosys in September 2021.
- Aditya Beborta from SoET CSE got placed in Cognizant in September 2021.
- Shubham Nayak from SoET CSE got placed in Cognizant in September 2021.
- ShantiDarshan Ray from SoET CSE got placed in Cognizant in September 2021.
- Tamal Datta from SoET CSE got placed in Cognizant in September 2021.
- Biswajit Patasani from SoET CSE got placed in Skolar and Pentagon Systems in September 2021.
- Aryaman Nayak from SoET CSE got placed in Accenture in September 2021.
- T. Rahul from SoET CSE got placed in Tech Mahindra in September 2021.
- Malati Venkata Ramana from SoET CSE got placed in Tech Mahindra in September 2021.
- Sibasish Mohanty from SoET CSE got placed in Byju's in September 2021.
- Manisha Behera from SoET CSE got placed in Byju's and Accenture in September 2021.
- Monalisha Pradhan from SoET CSE got placed in Accenture in September 2021
- Prashant Kumar from SoET CSE got placed in Accenture and Satrix in September 2021.

5.6 No of students benefited by guidance for competitive examinations and career counseling:

- B.Sc. and M.Sc. were encouraged and guided to apply for various competitive exams.
- Both M.Sc. and B.Sc. Students registered and participated in various campus drives of different companies like cognizant, byjus, Axis Bank, ZIFO International, etc.

6. Leadership and Management

6.1. Professional development / administrative training programmes

- Dr. Subrata Sarangi, Professor, Department of Physics, CUTM, Bhubaneswar campus has been awarded a 3-year Visiting Associateship at Inter-University Centre for Astronomy and Astrophysics (IUCAA), Pune.
- AICTE Training and Learning Academy (ATAL) Sponsored One Week Faculty Development Programme (FDP) On "**Computational Fluid Dynamics – A Potential Engineering Design Tool**" From 26th - 30th July 2021 organized by Computational Mathematics & Department of Mechanical Engineering, Centurion University of Technology and Management, Odisha.
- We had alumni talk on current technologies on IoT, Machine Learning and AI, Cloud Computing, BlockChain by **Dr. Mahendra Swain**, ECE Alumni (2009-2013 batch), and Lead Software Developer in IoT /AI at **Persistent Systems Pvt. Ltd**, Bangalore.
- Electrical Department had successfully conducted the AICTE sponsored Conference "Transcon-2021" from 25 to 26 August 2021 were many inside and outside faculties and industry experts participated and presented their research paper.

6.2. No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes:

- Dr. Sagarika Parida attended TMU College of Pharmacy Online Summer Program from 16th to 20th August 2021.
- Dr. Sagarika Parida has participated in a UGC sponsored short-term course from 23 to 27.08.21-HRDC-STC-Leadership Development, organized by UGC HRDC, Utkal University, Vanivihar.
- Dr. Gyanranjan Mahalik completed 5 days FDP (7-11 July 20201) on “Research Methodology and Project Writing” Organized by RD Women’s University, Bhubaneswar, Odisha.
- Dr. Gagan Kumar Panigrahi attended Skill Vigyan Refresher Course in BioSciences on the Theme “Advances in Life Sciences and Biotechnology Research and Development” held at the Institute of Life Sciences, Bhubaneswar from 23rd August 2021 to 12th September 2021.
- Prof. Manas Ranjan Padhi attended ATAL FDP on "Novel Materials, Fabrication, Design & Optimization" from 2021-9-20 to 2021-9-24 at Veer Surendra Sai University of Technology, Burla.
- Prof. Debashree Debadatta Behera, Prof. Manas Ranjan Padhi, and Dr. R. C. Mohanty attended ATAL FDP on "Computational Fluid Dynamics – A Potential Engineering Design Tool" from 2021-07-26 to 2021-07-30 at Centurion University of Technology and Management.
- Prof(Dr.) Sujata Chakrabarty Organized IEEE International Women in Engineering (WIE) Conference on Electrical and Computer Engineering and Reviewed papers in IEEE International Women in Engineering (WIE) Conference on Electrical and Computer Engineering from 21-22 August 2021.
- ATAL FDP program on “Cyber Security” organized by NITTR, Chandigarh from 12-7-21 to 16-7-21 was attended by Prof. Shreela Dash.
- ATAL FDP program on “Artificial Intelligence” organized by IIT Ropar from 21-7-21 to 25-7-21 was attended by Prof. Shreela Dash.
- ATAL FDP on “Blockchain: A disruptive Technology” completed from 2nd to 7th July 2021 attended by Suwendu Kumar Nayak.
- ATAL FDP on “Device Security in IoT” completed from 7th to 11th July 2021 attended by Mr. Suwendu Kumar Nayak.
- All the faculty members from SoM got exposure towards preparing class videos through OBS studio and Zoom and the lecture notes, questions and answers, etc. towards the development of E-Content to get it uploaded in the SWAYAM portal of UGC. Faculty members were also asked to prepare the qualification packs for a new job role in NSDC and subsequently prepare the Question Bank to get it uploaded at the NSDC portal.
- All the faculty members have attended the FDPs through the research centers listed below: -
 - Developing project proposals
 - Referencing styles
 - Data Analysis (Understanding data Construction of Instruments Quantitative analysis of data (Regression, ANOVA, SEM, Multivariate)
 - An overview of SPSS, STATA, PLS-SEM; AMOS Analysis of Qualitative Data Presenting results for publication
 - Digital Ecosystem
- In addition to the above FDPs, the faculty members of Team-SoM also attended the FDP conducted by the SWAYAM team of UGC in which they demonstrated the methodology to upload the e-content in the SWAYAM portal of UGC.

- All the faculty members of SoPLS were participated in Online STTP sponsored by AICTE and got the certificate with securing more than 60% mark and 80% attendance.
- 15 faculties attended an FDP presentation on “Digital Marketing: An Overview & Transformation” held on 2nd – 3rd July 2021.
- 15 faculties attended an FDP presentation on “Data Analysis” held on 5th – 15th July 2021.
- 15 faculties attended an FDP presentation on “Sustainable Development Goals” held on 19th September 2021.

7. Values and Best Practices

7.1 Strategic plan.

- To increase the number of research publications in reputed journals
- To integrate the research with the industry.
- To increase the number of research publications with these six months to have a good score in NIRF.
- To integrate the research with modern software tools like Python, Biovia’s material and discovery studio, giovia, damola, simulia, etc. to get quality publications that can lead to patent as well as new product development.
- To give Training to all faculty members in python, biovia and other software tools for meeting industrial competency and high-quality research publications.
- Faculty members associated with different research centers will have to engage students and research scholars working under them to produce some patent/product.
- We planned to set up a cactus garden and medicinal plant garden where students were involved to perform grafting of cactus plants, planting different medicinal plants, and understanding their medicinal values. Subsequently, these plants will be used for various research purposes. Near future research work will be done in nanopore sequencing and genome editing.
- To increase the number of research publications with these six months to have a good score in NIRF and NAAC.
- To integrate the research with modern software tools like Biovia’s material and discovery studio, Machine Learning, etc. to get quality publications that can lead to patent as well as new product development.
- To impart training to all faculty members in software tools for meeting industrial competency and high-quality research publications.
- To introduce python, biovia software tools in the curriculum to improve the learning quality of students.
- Each research center was asked to publish at least 1 book.
- Each research center was asked to publish 1 patent.
- Ph.D. faculties were asked to submit a project proposal for different funding agencies.
- Team SoM has formed two committees i.e., the Placement committee as well as the Alumni committee as a part of the future strategic plan to develop the school. In both the committees there is a mix of faculty as well as student coordinators to execute the responsibilities. The placement committee shall assist the central team in placement-related activities whereas the alumni committee shall focus on the Alumni related activities. Already on 12th June 2021, a virtual alumni meet was conducted for the School of Management for the very first time and another follow up virtual alumni meet was conducted on 3rd July 2021 as some alumni batch interactions could not be done during the first virtual alumni meet due to lack of time.

- Every Saturday a peer-to-peer interactive sessions are held among the faculty members of the School of Management and School of Media and Communication with emphasis on topics beyond research and courses. Peer group interaction of 60 minutes (30 minutes of presentation by a faculty member followed by 30 minutes of peer interaction) is organized to foster creativity and cooperation.
- Team SoM has engaged the students in the production units of our campus in their courses respectively for the students and they shall work towards the creation of sales orders, projects, development of research articles, case studies, etc. Students also created the YouTube channel of the production units and they have started promoting by creating videos of the products from our production units.

7.2 Community engagement:

- Students of MBA 1st year Prasanna Kumar Pradhan, Sunanda Priyadarshini, Ritiq Patnaik, Tushar Rukhiyana, and Manoj Kumar Panda joined the Centurion covid-19 helpline team to provide 24*7 support to the needy related to the disease. The team shall also provide information support service (as per WHO & Govt. guidelines) to the patient and family members about hospital, bed, medicine, oxygen, food, and post COVID precautions.
- Community Diagnostic Centre was inaugurated on 16 Aug. 2021
- 5 COVID VACCINATION DRIVE was organized in Community Diagnostic Centre for students, staff, and outsiders. In which a total of 680 COVID vaccinations were given.
- We have distributed a pamphlet to Nearby Medicine Stores for Promotion of Community Diagnostic Centre

7.3 Consultancy:

- There was a meeting at the departmental level to apply for more projects to the different funding agencies.
- Dr. Rukmini Mishra received 11 lakhs as 1st year grant DST project, Govt. of India for the project entitled "Engineering anthracnose resistance in chili pepper (*Capsicum annum L*) using a single transcript CRISPR/Cas9 genome editing system "under the scheme of SERB POWER-GRANT.
- Adding one more feather to its cap, Centurion University of Technology and Management, the number one Private university of Odisha in collaboration with Banking Finance and Insurance Institute, Nepal (BFIN) has organized a five-day residential Leadership Development Program (LDP) from 24th-28th August for the Regional Managers, Branch Managers and other Middle-Level Executives of Nepal.
- In addition to this, another MDP proposal has been initiated towards Mr. Madhusudan Das Regional Academy of Financial Management, Bhubaneswar to train the OFS officers and the syllabus revision work was done by the Finance faculties of School of Management, Bhubaneswar.