



**Centurion**  
**UNIVERSITY**  
*Shaping Lives...  
Empowering Communities...*

# **Centurion University of Technology and Management**

## **Bhubaneswar Campus**

### **IQAC Minutes of Meeting (January – March 2021)**

Date : 17.05.2021

Time : 4PM

Venue : Zoom App

#### **Members Present:**

1. Dr. Prashant Kumar Mohanty (Dean Academics)
2. Prof. Jaganath Padhi (Director)
3. Prof. KVD Prakash (Dean-HRD)
4. Dr. Umakanta Nayak (Dean SoM)
5. Prof. Pragyan Parimita Debata (HoD, Mechanical)
6. Dr. Kamal Kumar Barik (HoD, Civil)
7. Dr. Harish Kumar Mohanta (HoD, ECE)
8. Dr. Subrat Kumar Pradhan (IQAC Coordinator ECE)
9. Dr. Ramaprasana Dalai (IQAC Coordinator EEE)
10. Dr. Chittaranjan Sahoo (HoD, Chemistry)
11. Dr. Tumbanath Samantara (HoD, Mathematics)
12. Dr. Kula Bhusan Pradhan (IQAC Coordinator, SoVET)
13. Dr. Nibedita Nayak (IQAC Coordinator Physics)
14. Dr. Shivani Nanda (IQAC Coordinator CSE)
15. Dr. Chinnu Bohidar (IQAC Coordinator SoMC)
16. Dr. Yashaswi Nayak (HoD, Zoology)
17. Dr. Rukmini Mishra (HoD, Botany)
18. Dr. Gurudutta Pattanayak (Dean, SoPLS)
19. Dr. Himansu Bhusan Samal (IQAC Coordinator SoPLS)
20. Dr. Sabyasachi Dey (IQAC Coordinator SoM)
21. Mr. Manzoor Ali (IQAC Coordinator SoPAHS)

### **Agenda & Plan of Actions to be taken**

- New domain and certificate course syllabus has been developed and subjected to approval by the expert committee in BOS meeting
- Complete second semester courses in first and forward mode in online mode keeping in view to the second wave of Covid-19.
- Mentors were asked to talk to the unregistered students and convince them to register their semester subjects ASAP by clearing their Semester Dues.
- Some professors were asked to conduct training classes and suggested to inform the timing and status of the technical training class.
- The CBCS course registration process was guided by the faculties who were asked to guide the students verifying their credit fulfilment.
- A process for updating the profile & publication details at an individual level in the IRINS account was taken up by the faculties.
- With the advent of the new session the even semester time table information was circulated to all the faculties and instructions were issued to conduct online Theory classes and offline practical classes in the light of the prevalent Pandemic situation.
- An advisory was issued to all the faculties to create online courses for Swayam Moocs platform.
- Faculties were asked to complete their assigned Certificate course and Diploma courses.
- The QP & NOS regulation governed the preparation of the assessment questions by the faculties as per the deadlines.
- Mentors were asked to track their mentees for the NAAC feedback.
- All Laboratory practice must be conducted within 15 days on the college campus in physical mode.
- Purchase of any chemical or instrument should be done by inviting quotations from different vendors and should be placed before the purchase committee for approval.
- It was also planned for a parent teacher meeting which we couldn't attend due to covid-19.
- Guide the students for course registration and verify their credit fulfilment.
- Faculties to update their profile & publication details in IRINS account.
- Even semester timetables were circulated to all faculties and faculties were asked to take online Theory classes and offline practical classes as per the timetables because of pandemic.

### **Admission related**

- For the pandemic situation Admission of the new batches was delayed.
- Dr. Kalpita Bhatta was given the charge of admission coordinator so as to help the admission team for foreign brand building of our department and to support the newly joined students for subject registrations and all. She performs her role very well.
- Department faculty members were asked to give a write up about the job perspectives of the syllabus or course they have developed to the admission team so that it could help them during admission counselling.
- Admission team has decided to boost the numbers in the current academic session.
- For the ongoing pandemic situation admission of the new upcoming batches were delayed.
- The University authorities advised to take proper measures to avoid physical contact during admission. It was advised to pursue maximum work through online. Admission coordinator of the department is working on the same.
- All faculty members were advised by the HoD as well as Dean to help in admission counselling whenever asked by the admission cell.

- B.Sc. Student Orientation Program was conducted on 1<sup>st</sup> December 2020 & M.Sc Student Orientation Program was conducted on 16<sup>th</sup> December 2020 in virtual mode for newly admitted students.
- Departmental Website updated with domain visibility addition and incubation of Industry partners was cited for the aspiring candidates to know the department better.
- A fresher's meeting was planned and executed for the students to make them familiar with the Faculty fraternity at the department level and a brief was given regarding exam related queries, CSR activities, academic events and so on trying to build a belongingness of the students with the department.
- Total number of students admitted under the School of Management is 84 for BBA program and 43 for MBA Program (after few students discontinued the program). Admission for the current academic session i.e., from 2021-2022 is under progress and the admission activities for School of Management is being conducted by Mr. G.K. Panda and Ms. Nita Patwari.
- Total number of students admitted under the school for new session: 11 for BA program.
- As discussed with VC madam, there will be no new admission in the School of Media and Communication from 2021-2022.
- Two new Post-graduate programmes in the Department of Pharmacy (M.Pharm in Pharmaceutics and M.Pharm in Industrial Pharmacy) have been proposed as per regulations to the Pharmacy Council of India (PCI).
- Different teams will be formed soon to contact the students from National and International level.

### **Teaching and Learning**

- Online classes were conducted for B.Sc and M.Sc 1<sup>st</sup> semester students in fast forward mode.
- B.Sc 4<sup>th</sup> & 6<sup>th</sup> sem and M.Sc 4<sup>th</sup> sem classes were conducted physically.
- Internal 1 was conducted successfully.
- First and Final semester examinations conducted successfully in offline mode for SoAS.
- Student's performance observed from the online examinations conducted was very good in comparison to offline examinations.
- Hampered due to Pandemic situation
- Students were encouraged to take online internships to build-up skills and accumulate knowledge.
- Mock interviews were conducted for online placement interviews
- On-line classes on PPT were conducted by placement cell.
- Mentoring was done properly to communicate with students and parents to maintain the communication and motivate students to participate in online classes regularly.
- Survey conducted on students to obtain the feedback on the teaching and learning's in the online mode.
- Faculties were instructed to complete the practical sessions for previous semesters which students were not able to do in the laboratory due to Covid-19.
- Students of first semester were instructed to appear for mandatory demo practice test on icalibrator on 1<sup>st</sup> February 2021.
- Faculties were instructed to take presentations for second internal of first semester students.
- End Semester exams were postponed to 5<sup>th</sup> April 2021.
- Due to resurgence of COVID cases, Faculties were requested to make Objective Question paper for End Semester Examination (Scheduled to be held from 5<sup>th</sup> April) of first semester students and send it [qa.qp@cutm.ac.in](mailto:qa.qp@cutm.ac.in) by 29<sup>th</sup> March.

- Basic information required for 2020 - 2021 graduating batches were collected for grade sheets and certificates.
- Faculties of all the programmes were instructed to enter and freeze marks for internal theory (II) (continuous theory assessment) /practice in the ERP. The last date of completing the internal mark entry in the ERP & external mark submission at the exam cell is 3<sup>rd</sup> April 21.
- Due to the current COVID-19 situation, teaching is happening through offline and online processes and it is going smoothly. Students are attending the classes regularly and the shortage of attendance is very less.
- Teachers are taking interactive sessions through project-based learning techniques, which is helpful for the students to understand easily.
- Now all the classes are held regularly, faculty members from BBSR campus are taking classes for all the courses.

### **Assessment**

- 2<sup>nd</sup> internal assessment of both M.Sc. and B.Sc. 1<sup>st</sup> semester students were completed in the month of March.
- End- term external practical examination also completed for both M.Sc. and B.Sc. 1<sup>st</sup>sem students.
- Load distribution, Lesson plan preparation has been completed by respective faculty members.
- PPTs and Videos were prepared and given to respective coordinators.
- 2<sup>nd</sup> Internal evaluation was completed online as per session plan and uploaded in ERP in time.
- All Laboratory external and Semester examinations were completed by offline mode for 1<sup>st</sup> year students of every program keeping in view the 2nd cycle of contamination of coronavirus.
- Students were sent home in March last week and during home quarantine online classes and other activities were conducted through online mode.
- 1st internal examination and evaluation (online) was completed for the current batches.
- Semester examination conducted physically for B.Sc 1<sup>st</sup> and M.Sc 1<sup>st</sup> sem students.
- Students completed Experiments attending physical lab classes.
- The classes have been conducted by faculty members in zoom app / google meet strictly following the syllabus and lesson plan uploaded in the ERP of the University.
- The CBCS subject registration was successfully done for the even semester students.
- The M.Tech. syllabus was prepared for the newly introduced course of Data Science.
- Students were accessed for internal examination in online mode through icalibrator.
- Internal II (presentations) were conducted for first semester students in the 1st week of March.
- The End Semester Examination schedule has been released from the examination cell and students are preparing themselves for it.
- Students are accessed by internal and external examination, project, practice and assignment in online as well as offline mode as the offline classes also started following Government of Odisha notification for higher education institutions. Faculty members taking classes for Paralakhemundi campus took their classes in online mode.
- Marks of 1<sup>st</sup> and 2<sup>nd</sup> internal were successfully uploaded in ERP for all 1<sup>st</sup> year students.
- Online tests were conducted for theory papers on the respective subjects for 1<sup>st</sup> internal.
- Online PowerPoint presentations were conducted for practical papers as their internal evaluation.

### **Student Performance:**

- Result analysis for both B.Sc. and M.Sc. programme was done from 2016 to 2020.
- Odd semester results were out. Results analysed and reviewed.

- Ritu Raj Ghosh of B.Sc final year has participated in quotation competition organized by CSR cell on the occasion of aids awareness program.
- All the odd semester online examination results were published and our departmental students had performed fairly well as compared to offline exams.
- Mentors are advised to take interviews and to take audio recording of their experience of final year students.
- Student performance remains satisfactory during the quarter. Most of the students of BBA and MBA did attend the offline classes but subsequently many students from MBA 4<sup>th</sup> semester left to join their respective organizations after getting placed and they also got the 'No Objection Certificate' from School of Management. So in terms of placement also the performance of the students have been quite satisfactory.
- All the projects, assignments and presentations will be taken from the students in the online mode.

### **Students Activity:**

- Students were preparing PowerPoint presentations for their second internal test which was on the basis of PowerPoint presentation for all the subjects.
- M.Sc. 4<sup>th</sup> semester students have visited the Paralakhemundi campus for their project work from January to March on domain protected horticulture, organic farming and food processing.
- Students were sent home in March last week and during home quarantine online classes and other activities were conducted through online mode.
- Science Club "Illuminati" has organized several competitions on the occasion of National Science Day like Instant Debate, Collage Making, Tech PPT, Science Quiz competition.
- Students are preparing for their second internal test which will be on the basis of PowerPoint presentation.
- Aman Kumar Gupta, 180704100010, 6<sup>th</sup> Sem BSC Chemistry, Bhubaneswar is the winner in the Patriotic Poetry Writing competition for the occasion of 72 Republic day.
- Akash Kumar Behera, 200705100046, 1<sup>st</sup> Year MSc. Chemistry, Bhubaneswar is the winner in the Poster making competition for the occasion of 72 Republic day.
- Subhashree Khuntia, 180704100011, 6<sup>th</sup> Sem BSC Chemistry, Bhubaneswar has participated in Smart Thinker Challenge competition for the occasion of Annual Cultural & Literary Meet Shatajyotee-21 @ Gajajyoti-2021".
- Piyali Deb, 180704100001, 6<sup>th</sup> Sem BSC Chemistry, Bhubaneswar has participated in Smart Thinker Challenge competition for the occasion of Annual Cultural & Literary Meet Shatajyotee-21 @ Gajajyoti-2021".
- Gajajyoti 2021 was conducted in a very silent manner keeping the pandemic situation in view. Only student's competitions were conducted.
- A Flash mob was arranged as a CSR activity in which CSE students participated depicting the importance of COVID related issues in the form of plays.
- An ice-breaking session was arranged between the final-year and pre-final year ML-domain students for marking a memorable closing day where the gathering was addressed by VC madam. She rendered the best paper award in the Springer Conference to Kanti Sai Kishore, a final year ML domain student.
- Recognition was awarded to another final year ML-domain student Goutam Sahu for his publication in an unpaid journal.
- All the odd semester online examination results were published and our departmental students had performed fairly well as compared to offline exams.

- Different Students activities were organized on behalf of Gajajyoti 2021.
- All the domain projects were evaluated and students were encouraged to publish papers regarding their project.
- Three students of M.Sc. Forensic Science ( Sem IV) presented ePoster in 1<sup>st</sup> International eConference 2021 on ‘Emerging Trends in Forensic Science’ organised by IASR and SIF, held on 30<sup>th</sup> and 31<sup>st</sup> January 2021. Students presented ePoster on: Shruti Mishra: Forensic Linguistics: An Emerging Tool for Investigation Bijaylaxmi Jena: Poroscopy: An Emerging Trend in Fingerprints Diptismita Priyadarshini : Hand Geometry Biometrics.
- Students completed their SIP presentation and viva; they were sent to the field for doing their projects for their respective courses. They participated actively towards training and placement and some students also emerged with more than one offer out of which they picked the organization of their choice and joined.
- Apart from courseware students will be sharing PPT and videos to the students on a regular basis.
- Students appeared for their second internal test which was held on the basis of a PowerPoint presentation.
- All the newly admitted students are trained on how to use courseware app
- A webinar was organized on “Overview of GMP ” on 6<sup>th</sup> of March delivered by Dr. Shakti Prassana Sahoo senior manager Sunpharma.

### **Students Welfare**

- A webinar was organized on "CRISPR in Crop Improvement" aims at understanding the basics of genome editing tools, CRISPR-Cas and its applications in crop improvement on 26th January 2021.
- One invited talk was organized by IAS guru institute and all B.Sc. and M.Sc. students have participated.
- One faculty member was deputed as mentor/proctor to 20 students so as to keep a record of their academic activities and to help them in their academic problems.
- Remedial Classes were organized for poor performed students in Internal Examinations by their respective subject teaching faculty members.
- All the students participated and enjoyed the four days annual tech fest Gajajyoti 2021 through online mode.
- Soft copy of all courses as per the syllabus were prepared and uploaded in the courseware app. In the orientation programme, B.Sc and M.Sc 1<sup>st</sup> sem students were advised to use the app.
- Students were provided with soft copies of assignments, MCQ Questions, numerical etc to help them in online classes.
- Remedial Classes were organized for poor performed students by respective subject teaching faculty members.
- Students from the final year and pre-final year went for internships to different Companies like GTET (CUTM), Apron India (Noida), Appstone (BBSR) etc.
- A final year CSE student Shruti Dash participated and stood second in an International Women’s Day Virtual HACKATHON.
- Our student team comprising Sidharth and his teammates participated in the Global Blockchain Hackathon.
- This process was completely hampered because of the Global Pandemic of COVID 19.
- Mentors/proctors were asked to keep a record of student’s academic activities and to help them in their academic problems.

- Counselling of students was done continuously as in the beginning the attendance level was not up to mark during the offline classes but post counselling, it significantly picked up. Students were advised to maintain social distancing while attending offline classes and wear masks as per the directions of Government of Odisha. University implemented it and the students of the School of Management also followed it.
- Counselling of students was done to clear all their backlogs (if any) by appearing the EoD particularly to the final year students. The counselling sessions for (b) as well as (c) is done by the respective faculty mentors.
- Students are counselled by their mentors regularly through meetings and issues like placement preparedness, academic related issues, outstanding dues and any other problems faced by them were discussed.
- Result analysis of the students' performance in the previous odd semester examination was done for MBA 3<sup>rd</sup>, BBA 3<sup>rd</sup> and BBA 5<sup>th</sup> semester batches.

### **Student Training:**

- Virtual training programme was done for B.Sc. final students. Career counselling with group discussion and personal interview was carried out.
- M.Sc students were trained by IAS Gurukul for various competitive examinations.
- Virtual training programme was done for B.Sc. final students. Career counseling with group discussion and personal interview was carried out.
- The student training for 4<sup>th</sup> year students was planned and executed to practice coding by the faculty facilitator Sumitha Madam.
- As per the planned activity for student training and coding practice for 3<sup>rd</sup> year students is done on a regular basis (C, C++, Java, Python)- Weekly 7 classes (Rakesh Kumar Ray, Shivani Nanda, Nilamadhab Dash, Mamata Garanayak).
- Different soft skill training and technical training classes were conducted to make the final year students ready themselves for the placement interviews.
- Students were asked to do the online internship to sharpen their knowledge to join industries after the completion of their degree.
- 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.
- MBA 1<sup>st</sup> year students attended a webinar on “Information Systems Strategy Triangle” on 19<sup>th</sup> February, 2021.
- MBA 1<sup>st</sup> year and BBA 1<sup>st</sup> year students appeared for a demonstration test on “Tab based demo exam” on 20<sup>th</sup> March, 2021. The objective was to make the students acquainted with Tab based examination and gradually move towards a paperless examination system to build an eco friendly environment in the University.
- MBA 1<sup>st</sup> year students also attended online the “Introductory Workshop on Jagriti Yatra” organized by Center of Innovators and Entrepreneurs (CIE), Centurion University of Technology and Management on 27<sup>th</sup> March, 2021.
- 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 the students of both BA and MA students attended a webinar on “Design for Impact” organized by the Centre for Edutech and Skilltech on 27<sup>th</sup> February 2021.
- Students of Both BA and MA programs under School of Media and Communication participated in a workshop on Radio Jockeying on 31<sup>st</sup> March 2021.
- Health camp was organized by SoPAHS on 27-02-2021 at Madhusudan building (BBSR) where diabetes screening was carried on by a team from Dr. Mohan’s diabetes specialties center and dental check-up was carried out by Dr. Sanjukta Dongayat. A total of 140 individuals were screened at the health camp.
- World Optometry day Conference was conducted (23-03-2021) at BBSR campus by SoPAHS. Inauguration was done by honorable VC. Through Video conferencing Prof. BNR Subuddhi (HOD, Ophthalmologist, MKGG Medical College) delivered a wonderful speech about Optometrist role and dedication in the field of eye health care and community health care.
- Eye exercises program training was conducted by B. Sc. Optometry students of SoPAHS (BBSR). They visited various branches in the University and carried out the training process. 600 individual persons included in the training.
- Exclusive Introductory demo class for competitive Govt. exams were conducted by IAS Gurukul for the students of SoPAHS on 16-03-21. IAS Gurukul is a national level institution that has been helping students to get Government jobs.

### **Job Preparedness**

- One invited talk was organized by the IAS guru institute. Students have participated and are interested in joining on job preparedness classes. About 82 students joined in IAS guru classes which are being held for weekly four classes.
- Students interested in NET and GATE are advised to take competitive domain subject as their choice for preparation and extra doubt clear classes was carried out by Mr. Srimay Pradhan and Bhagyeeswari Behera for NET and IIT JAM for B.Sc. students.
- NET/GATE classes conducted 3 days in a week
- Arranging for the students to participate in the events for exposure to the current technical knowledge like HACKATHON events, webinars, and expert talks is arranged at the department level.
- Technical classes were conducted for the final year student in online mode.
- Job readiness course offered by SoM for both MBA and BBA students which is of six credits entirely in practice mode. Students also appeared for the baseline test in order to check their current IQ and their readiness so that accordingly the placement training would be given.
- MBA 1<sup>st</sup> year students attended a “Career Counselling Talk” in offline mode on 16<sup>th</sup> March, 2021.
- MBA and BBA first year students appeared for the IELTS tests for both reading and listening in online mode on 12<sup>th</sup> March and 16<sup>th</sup> March, 2021 respectively.
- MBA 2<sup>nd</sup> year, BBA 2<sup>nd</sup> and BBA 3<sup>rd</sup> year students attended a webinar titled “The Journey from ‘we are sorry to congratulations’, the art of cracking Personal Interview on 15<sup>th</sup> March, 2021.
- Job readiness course is a compulsory course for BA students which are of six credits entirely in practice mode. Students also appeared for the baseline test in order to check their current IQ and their readiness so that accordingly the placement training would be given.
- Eleven placement done in this period
- Special introductory demo classes for competitive Govt. exams are conducted by the SoPAHS with the collaboration of IAS Gurukul on 16-03-21.



- Meetings with final year students were organized offline on 1<sup>st</sup> March (for students residing in Odisha) and through an online app on 8<sup>th</sup> March, 2021 (for students deputed outside Odisha).

### **Student Mentoring**

- Each faculty was taking mentoring classes for newly joined students each week in offline mode.
- Mentors are frequently interacting with students and parents and informing about students attendance on classes and projects. Academic updates and personal problems of mentees are being followed strictly.
- Mentoring is done by faculty members for B.Sc and M.Sc students as follows. The monthly report is submitted to HoD and accordingly the requirements of students are taken care.
- At the department level the student mentorship activities involved zoom sessions among the mentors and students with the following issues addressed like: - Credit completion for the final year students. Compliance of the subject registration activities, Motivating students to attend placement classes. Regarding student participation for the internship programmes. Student exit-survey collection.
- Student curriculum feedback collection as per the requirement of the BOS activity.
- Mentors were constantly in touch with their mentees to make them aware about the online class, internal exam, project evaluation, semester exam, Payment process
- Mentors are advised to talk with unplaced students to contact the placement cell for more opportunity to get placed.
- Mentors are regularly interacting with parents and informing about academic and personal problems of mentees from time to time.

### **Student satisfaction Survey**

- All the students have given their feedback for all the new subjects for M.Sc. programme.
- Students were instructed to fill up the feedback form online regarding the new syllabus and online semester examination.
- A feedback collection was done with respect to the curriculum in practice from the students (both studying currently and alumni).
- The passing out batch of students were enquired about the areas in which the organization could help them to get better job opportunities.
- Online feedback was taken from Students for the online internal examination centrally and they also gave their feedback for each course studying in their semester through their ERP.

### **Faculty and Staff**

#### **Faculty and Staff Welfare**

- Dr. Sagarika Parida reviewed the article entitled “Nutritional, phytochemical and cytotoxicity analyses of Air Potato Dioscoreabulbiferabulbils” by Horizon E-Publishing Group on 26.01.21.
- Dr. Sagarika Parida reviewed for Plant Science Today Journal on 6<sup>th</sup> March 2021.
- All teaching and non-teaching staff congratulates Mrs. Suchismita Acharya for her new born baby boy.
- Holi and New Year were celebrated among faculty members by sharing sweets, sweets and colours.
- Dr Siba Prasad Parida, Associate Professor, Department of Zoology, was invited as guest of honour and as resource person in many Government organizations.

- Resource person for the Annual Wetland Birds Census, 2021 organized by Chilika Wildlife Division, Chandaka Wildlife Division and Nandankanan Wildlife Sanctuary on 3<sup>rd</sup>, 4<sup>th</sup> and 8<sup>th</sup> of January 2021 respectively.
- Resource person for the Estimation of Estuarine Crocodile census, 2021 organized by Mangrove Forest Division (Wildlife), Rajnagar, Kendrapara, Odisha on 15<sup>th</sup> January to 22<sup>nd</sup> January, 2021.
- Resource person for the Annual Status Survey of Dolphins in Odisha, 2021 organized by Mangrove Forest Division (Wildlife), Rajnagar, Kendrapara, Odisha on 16<sup>th</sup> & 17<sup>th</sup> January, 2021.
- Resource person for a National Webinar on the topic “WildLife and It’s Prospective in Odisha” organized by Department of Zoology, S.V.M. (Auto) College, Jagatsinghpur on 27<sup>th</sup> January, 2021.
- Guest of honour for “World Wetland Day” at Nandankanan Zoological Park, Odisha on 2<sup>nd</sup> February, 2021.
- He has been awarded “Outstanding International Scientist Awards on Engineering, Science and Medicine”, held on 11<sup>th</sup> & 12<sup>th</sup> February, 2021 Pondicherry, India organized by VDGOD Professional Association.
- Guest of honour for “World Pangolin Day” at Nandankanan Zoological Park, Odisha on 20<sup>th</sup> February, 2021.
- Resource person for field level training programme for the eco guides/naturalist of Daringbadi Nature Camp, Balliguda, Kandhamala, Odisha on 24<sup>th</sup> to 26<sup>th</sup> February, 2021.by Odisha Biodiversity Board, Government of Odisha.
- Guest of honour for “World Wildlife Day” at Nandankanan Zoological Park, Odisha on 3<sup>rd</sup> March, 2021.
- Resource person for field level training programme for the eco guides / naturalist at Mandasaru Nature Camp, Raikia, Kandhamal, Odisha on 3<sup>rd</sup> to 5<sup>th</sup> March, 2021.by Odisha Biodiversity Board, Government of Odisha.
- Resource Person for the training programme on “Rescue and Safe Release of Dolphins” on 12<sup>th</sup> & 13<sup>th</sup> March, 2021by Chilika Wildlife Division, Balugaon.
- Resource Person for National Training Programme on Fish Breeding organized by NFBB, Kausalayaganga. Government of India.
- Resource person for field level training programme for the eco guides/naturalist at Nuanai Nature Camp, Puri Wildlife Division, Puri on 22<sup>nd</sup> to 25<sup>th</sup> March 2021.by Odisha Biodiversity Board, Government of Odisha.
- Faculty distribution with respect to research centres was done for target oriented research activities to be conducted at the University level.
- Faculties are encouraged to participate in webinars/FDPs/ workshops outside the domain of the Centurion University.
- Faculties were asked to join the campus. During the campus different safety measures were taken up by the University in order to prevent the spread of Covid 19.
- All the faculties from mechanical department have been attending in house CFD training FDP through online by Dr. Sekhar Majumdar.
- An incentive of 10000 was declared for faculties publishing 3 research papers in between July-Dec 2020.

#### **Awards Received:**

- Miss Kalpita Bhatta was awarded Ph.D in the month of March 2021.

- Dr. Rukmini Mishra received a grant of 30 lakhs from DST, Govt. of India for the project entitled “Engineering anthracnose resistance in chilli pepper (*Capsicum annum L*) using a single transcript CRISPR/Cas9 genome editing system "under the scheme of SERB POWER-GRANT.
- Dr. Yashaswi Nayak was felicitated by Vigyan Prachar Samiti of Cuttack division in their annual function by awarding her Mahamaya Pattanaik Smruti Samman Award for teaching and Research.
- Dr. Rajkumar Mohanta attained the AWS certified DevOps Engineer-Professional in the month of January-2021.
- Dr. Sujata Chakravarty published a patent on 12<sup>th</sup> February 2021 named Smart Attendance and Body Temperature Monitoring System at Working Site, with application number – 202131001373, (Published 12<sup>th</sup> February 2021).
- In recognition to her published patent Dr. Sujata Chakravarty, received her patent grant “Multi-Level Security and Detection System to Avert Elephant Accidents at Railway Tracks” with application number –202031035660, Publication date - 04/09/2020, Grant Date – 22nd March 2021, Patent number – 36239.
- Dr. Sujata Chakravarty also chaired a session in Odisha International Conference on Electrical Power Engineering, Communication and Computing Technology (ODICON-2021), on 9th January 2021.
- Dr. Surya narayan Sahoo had gone to CVRGU as a subject matter expert

### **Research and Publication**

- Dr. Sagarika Parida. Medicinal uses of few edible tuber crops by “Dongria Kandha” tribes of Kandhamal district of Odisha, Indian Journal of Traditional Knowledge published on January 2021.
- Dr. Sagarika Parida. In vitro Screening of *Psidium guajava* Leaf Extracts against *Fusariumoxysporum* and *Aspergillusniger*. Bulletin of Environment, Pharmacology and Life Sciences accepted January 2021.
- Dr. Gyanranjan Mahalik, Plants and their Resources which are utilized in Gajalakshmi Puja for Adoring. The Journal of Plant Science Research published January 2021.
- Dr. Gyanranjan Mahalik. A survey on the ethno medicinal plants and antimicrobial activity of *TridaxprocumbensL*. Research Journal of Pharmacy and Technology (RJPT). Accepted in March 2021.
- Dr. Gyanranjan Mahalik Morphological and Biochemical responses of *Macrotyloma uniflorum* (Lam.) Verdc. To allelopathic effects of *Mikaniamicrantha Kunth* extracts. Heliyon was accepted in February 2021.
- Dr. Rukmini Mishra, Dr. Wei Zheng, Dr. Raj Kumar Joshi, Dr. Kaijun Zhao, Genome editing strategies towards enhancement of rice disease resistance, Rice Science, Elsevier, 1672-6308, February 2021. Published.
- Dr. Richa Sharma, Dr. Bijayalakshmi Mohanty, Dr. Rukmini Mishra, Raj Kumar Joshi, Genome-wide identification and expression analysis of pepper C2H2 zinc finger transcription factors in response to anthracnose pathogen *Colletotrichum truncatum*", 3 Biotech, Springer, 2190-5738, January 2021, published.
- Dr. Satyabrata Nanda, Dr. Rukmini Mishra, Raj Kumar Joshi, Molecular basis of insect resistance in plants: current updates and future prospects". Research Journal of Biotechnology. Research Journal of Biotechnology.0973-6263. January 2021. Published.
- Three research papers of Dr. Tapan Dash,

- One research papers of Dr. Santosh Satpathy
- One research papers of Dr. N. Nayak
- Two research papers of Dr. S. L. Behera were published
- From January 2021 to March 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.
- 03 number of articles were contributed by Dr Yashaswi Nayak
- 03 number of articles were contributed by Mrs Sunita Sathapaty
- 06 number of articles were contributed by Dr Siba Prasad Parida
- 02 number of articles were contributed by Mr Gagan Kumar Panigrahi
- Dr. Sujata Chakravarty An improved harmony search based extreme learning machine for intrusion detection system, Materials Today: Proceedings 2021.
- Dr. Sujata Chakravarty A novel approach to CAD for the detection of small cell and non-small cell lung cancers Materials Today: Proceedings, Elsevier 2021.
- Dr. Sujata Chakravarty Reversible Selective Embedding for DICOM Image Security and Integrity using Visual Cryptography International Journal of Electronic Security and Digital Forensics 2021.
- Dr. Sujata Chakravarty Covid-19 Outbreak in Orissa: MLR and H-SVR Based Modeling and Forecasting International journal of Computer application in technology.
- Dr. Mamata Garanayak Agricultural Recommendation System for Crops using different machine learning regression methods International journal of agricultural and environmental information system 2021.
- Dr. Suwendu Kumar Nayak A Nobel Secure Framework for user Data Leakage Prevention in IoT-Fog Enable Smart Home.
- Dr. Suwendu kumar Nayak Recommendation System for Music based on Content and Popularity International Journal of Computer Applications in Technology (IJCAT).
- Dr. Sasmita Kumari Nayak Dynamis Task Scheduling using Nature Inspired algorithm Advances in Electrical and Computer Engineering (Submitted).
- Dr. Shreela Dash Adaptive difference expansion image steganography for increasing capacity ICIC Express Letters (Accepted).
- Dr. Shreela Dash High Capacity Multi-level Image Steganography Model Using Neural network.
- Dr. Raj Kumar Mohanta Discover insights and relationships in text using AMAZON comprehend.
- Dr. Raj Kumar Mohanta Amazon Kubernetes - An Open Source Container Management and Orchestration.
- Dr. Shivani Nanda Indoor Vehicle Navigation in Smart Parking using IoT Enabled Wi-Fi Platform.
- Dr. Shivani Nanda Precision Local Positioning in L-shaped Smart Parking Lots Using Wi-Fi Enabled IoT Platform.
- Dr. Rajendra Khadanga Published a paper in IET Renewable Power Generation "Design and Implementation of Interval Type-2 Fuzzy PID Controller Utilizing a Novel Modified Equilibrium Optimization Algorithm for Frequency Control of a Hybrid Distributed Power System" in March-2021.
- Dr. Amit Kumar Sahoo Published a Research Paper on Design of Lagrangian based FOPID controller for desired closed loop system in Journal of Circuits, Systems and Computers

- Dr. Amit Kumar Sahoo Published a Research Paper on Real-time Identification of Fuzzy-PID controlled Maglev System using TLBO based Functional Link Artificial Neural Network in Arabian Journal for Science and Engineering (AJSE))
- Dr. Vijay Kumar Garlapati, Dr. Sudhansu Bhusan Mohapatra, Dr. Ramesh Chandra Mohanty, Dr. Premananda Das, “Transesterified Olax Scandens as a bio-additive: Production and Engine performance studies”, Tribology International, Elsevier, 153, pp. 1-8, Jan 2021 ISSN: 0301-679X.
- One paper is published by Dr, Nitesh Dhar Badgayan on Biomaterials: Finite Element Analysis of HDPE-Based Hybrid Nanocomposite for Potential Use as Liner Material for Total Hip Prosthes under Scopus.
- Ms.Varsha Singh, Ms. Shruti Rajwar, Examination and Identification of Digital Photocopier and Laser Printouts, International Journal of Creative Research Thoughts, ISSN No. 2320-2882.
- Dr. Sipra Karmakar, Dr Bibhunandini Das published an article titled “Skill Gap in Various Sectors: A Review” at International Journal of Multidisciplinary Research, 7 (1), 155-165 (Peer Reviewed).
- Dr. Pramod Patjoshi and Dr. Girija Nandini applied for a seed money project and is under evaluation.
- Dr. Bibhunandini Das and Dr. Madhumita Das also applied for a seed money project and are under evaluation.
- Dr Susanta Kumar Mishra appeared before the expert committee of ICSSR-IMPRESS for evaluation of his applied project on 8<sup>th</sup> February, 2021.
- Dr. Rudranarayan Sahoo- In Vitro Dissolution Enhancement of Curcumin by Melt Dispersion and Solvent Casting Technique Aided by Molecular Modelling Approach Journal of Global Pharma Technology ISSN Number 0975-8542.
- Dr. Gnyana Ranjan Parida - Cellular and Molecular Mechanism of Liver Fibrosis: A Critical Insight Research Journal of Pharmacy and Technology, ISSN No – 0974-360X.
- Dr. Bikash Ranjan Jena- Formulation Development and Characterization of Levocabastine Hydrochloride Ophthalmic Suspension Acta Scientific Pharmaceutical Sciences (ASPS), ISSN No – 2581-5423.
- Dr. Nihar Ranjan Kar - A Review on Targeting of drugs to Brain, Indian Journal of Natural Sciences.
- Dr. Chaitanya Prasad Meher An in-vitro evaluation of Anti-Inflammatory activity from Ethanolic and Aqueous extract of Ixora coccinea World journal of Pharmacy and Pharmaceutical Technology.

### **Book chapters Published**

- Dr. Gyanranjan Mahalik. Traditional Uses of Essential Oils in Aromatherapy. Renu Publishers published a book chapter in February 2021.
- Dr. Gyanranjan Mahalik. Essential Oils Extracted from CO<sub>2</sub> Extraction Method published book chapter in February 2021.
- Dr. Gyanranjan Mahalik. Antimicrobial efficacy of nano-particles for crop protection and sustainable agriculture. Bentham Science accepted in January 2021.
- Dr. Shiv Sankar Das, Dr. Debashree Debadatta Behera, Dr. Nimay Chandra Giri “Clean Energy Applications in Modern World”, Notion Press, edited book: February 2021, ISBN: 9781638069560.

- Dr. Shiv Sankar Das, Dr. Debashree Debadatta Behera, “Framework for Clean Energy Products in Rural Areas of India”, 34<sup>th</sup> World Conference on Applied Science, Engineering and Technology, International conference: March 2021.
- Dr. S. D. Mohanty, Dr. S. S. Mahapatra, Dr. R. C. Mohanty, Dr. J. Mohapatra, Dr. S. K. Khuntia, and Dr. S. Nayak, “Innovative Methods of EDM Electrode Manufacturing: A Review”, Current Advances in Mechanical Engineering, Springer, Singapore, 2021, ISBN: 978-981-334-795-3. [https://doi.org/10.1007/978-981-33-4795-3\\_87](https://doi.org/10.1007/978-981-33-4795-3_87).
- Ms. Varsha Singh, Ms. Shruti Rajwar, Phytochemical screening of Ocimum Sanctum against Pathogenic Bacteria, Lambert Academic Publishing, ISBN No. 978-620-3-30895-2.
- Ms. Shruti Rajwar and Ms. Varsha Singh, Evaluation of Antibacterial Properties of Commercial Probiotics, Lambert Academic Publishing, ISBN No. 978-620-3-30865-5.
- Mr. Bikash Ranjan Jena, Design of Experiments for Pharmaceutical Product Development. Springer, Singapore. ISBN no 978-981-33-4350-4.
- Mr. Haragouri Mishra Formulation and Evaluation of the Sustained release Matrix Tablets Phenylpropanolamine HCL Lambert Academic Publishing, ISBN No 978-620-3-19921-5
- Mr. Amulyaranta Behera Formulation and Evaluation of Transdermal Polymeric Film of Olmesartan Medoxomil Lambert Academic Publishing, ISBN No 978-620-3-30864-8.
- Mr. Gnyana Ranjan Parida Formulation and Characterization of Bioadhesive Tablets of Gliclazide Lambert Academic Publishing, ISBN No 978-620-3-30899-0.
- Mr. Pallishree Bhukta CNS activity of hydro alcoholic extract of Litsea glutinosa Lambert Academic Publishing, ISBN No 978-620-3-30853-2.
- Dr. Deepankar Rath, Hepatoprotective activity of Allophylus serratus, Lambert Academic Publishing ISBN No 978-620-3-40918-5.
- Dr. Biswajeet Acharya, Evaluation of Analgesic Activity of Datura leaves in Albino Rats, Lambert Academic Publishing
- Dr. Swarnajeet Tripathy A physicochemical comparison study of Aloe leave and Aloe Gel Lambert Academic Publishing, ISBN No 978-620-3-30832-7.
- Dr. Lipsa Samal Phytochemical, Pharmacological evaluation of The Plant Nyctanthes Arbor Tritis Linn, Lambert Academic Publishing, ISBN No 978-620-304190-3.
- Dr. Om Prakash Panda, Pyrazole Preparation and uses Lambert Academic Publishing ISBN No978-1-53618-250-7.
- Dr. Biswajit Samantaray, RP-HPLC Study of Rebamipide, Lambert Academic Publishing ISBN No 978-620-3-41003-7.
- Dr. Sucharita Babu, Phytochemical evaluation of plant Limnophila rugosa (Roth) Lambert Academic Publishing, ISBN No 978-620-3-40979-6.
- Dr. Ayushi Pradhan, Formulation and in vitro evaluation of Self micro emulsifying DDS, Lambert Academic Publishing, ISBN No 978-620-3-41082-2.
- Dr. Chitanya Prasad Meher, An in Vitro Study: Evaluation of Antiurolithiatic activity, Lambert Academic Publishing ISBN: 9786203582710.
- Dr. Chitanya Prasad Meher, Designing Orally Active Antimicrobial Drugs, Lambert Academic Publishing, ISBN: 9786203580549.
- Dr. Yashwant Giri, Formulation and evaluation of Cordia Dichotoma as a Binder in Tablet, Lambert Academic Publishing, ISBN-9786203409413.

**Teachers awarded National/International fellowship for advanced studies /research during the Quarter:**

- Dr. Susanta Kumar Biswal Professor of Chemistry has been elected as Fellow to Hong Kong Chemical Biological, Environmental Engineering Society.
- Dr. Susanta Kumar Biswal is conferred with the International Teacher Award by International Research Association, London.
- Dr. Susanta Kumar Biswal is conferred with outstanding Scientist Award by VD GOOD Professional Association, Tamilnadu, India.
- Dr. Susanta Kumar Biswal Chaired a session in the 2021 8<sup>th</sup> International Conference on Chemical and Biological Sciences (ICCBS 2021) held in Japan.
- Dr. Bidyut Kumar Kundu was selected as a Visiting Faculty (Assistant Professor) at GSFC University under Gujarat State Fertilizers and Chemicals Limited, P. O, Fertilizer Nagar, Vigyan Bhavan, Vadodara, Gujarat 391750.
- Dr. Umakanta Nayak, Dr. Susanta Kumar Mishra, Dr. Sabyasachi Dey, Dr. Girija Nandini and Dr. Pramod Kumar Patjoshi were all awarded incentive of Rs 10,000/- for publishing three or more articles (only in Scopus/WoS/UGC CARE indexed journals) between July 2020 and August 2020 excluding the bulk publishing done for the UGC CARE journals.

#### **Research Publications in the Journals notified on UGC website:**

- Five papers published and 3 papers accepted in the journals notified on the UGC Website.
- Dr. Manoranjan Behera , Dr. Susanta Kumar Biswal , Dr. Mohammed A Ahemad and Dr. Bhabani Shankar Panda, “Demonstration of Enhanced Thermal Stability, Dielectric Constant and Low Tangent Loss by Particle-Reinforced Silver/poly (Vinylidene Difluoride) Polymer Nanocomposites”, *Biointerface Research in Applied Chemistry*, Volume 11, Issue 5, 2021, 12584 – 12595.
- Dr. Susanta Kumar Biswal, Dr. Manoranjan Behera, Dr. Ardhendu Sekhar Rout, Dr. Arpita Tripathy, “Green Synthesis of Silver Nanoparticles Using Raw Fruit Extract of *Mimusops elengi* and their Antimicrobial Study”, *Biointerface Research in Applied Chemistry*, Volume 11, Issue 3, 2021, 10040 – 10051.
- Dr. V. P. Saikishore, Dr. S. K. Biswal, and Dr. R. K. Mohapatra, “A Series of mixed ligand metal ligand metal complexes: Synthesis, Characterization and Molecular docking investigations against CoronaVirus Spike Protein”, *Rasayan J Chem*, Vol. 14 | No. 1 |325-332| January - March | 2021.
- Dr. Archita Sahoo, Dr. Rikina Choudhury, Dr. Rajkumari Supriya Devi, Dr. Sachin Kumar, Srimay Pradhan, Dr. Susanta K Biswal, Dr. Sanjeet Kumar, “Evaluation of medicinal potential and antibacterial activity of selected plants against *Streptococcus mutans*”, *Acta phytotech zootechn*, 24, 2021(1): 9–15.
- Dr. Bidyut Kumar Kundu, Dr. Pragti, Dr. Soumen Biswas, Dr. Abhijit Mondal, Dr. Shyamalava Mazumdar, Dr. Shaikh M. Mobin and Dr. Suman Mukhopadhyay, “Unveiling the urease like intrinsic catalytic activities of two dinuclear nickel complexes towards the in situ syntheses of aminocyanopyridines”, *Dalton Transactions*, Accepted 7<sup>th</sup> March 2021.
- An article by Dr. Bidyut Kumar Kundu entitled “A molecular modelling approach of some keto based natural drugs with potential antiviral activity towards SARS-CoV-2” has been accepted for publication in *Journal of Clinical Trials and Research*.
- A patent of Dr. Bidyut Kumar Kundu entitled as “Synthesis of aminocyanopyridenes using urea mimetics' ' was published by Intellectual Property of India under Controller General of Patents, Designs & TradeMarks.
- Dr. Debasrita Dash ,Dr. N R Panda and Dr. Dojalisa Sahu, “Sm<sup>3+</sup> driven enhancement in photocatalytic degradation of hazardous dyes and photoluminescence properties of hexagonal-ZnO nanocolumns”, *IOP Publishing*, 2,2021, 010007

- Dr. Dojalisa Sahu and Dr. Nihar Ranjan Panda, “Exhibition of Novel Photocatalytic Activity and Photoluminescence Properties with High Inhibition towards Bacterial Growth by Hydrothermally Grown ZnO Nanorods”, *Current Nanoscience*, 2021, 17, 1-8.
- Dr. Shraban Kumar Sahoo, Dr. Gagan Kumar Panigrahi, Dr. Jitendra Kumar Sahoo, Dr. Arun Kumar Pradhan, Dr. Aditya Kumar Purohit, Dr. Jyoti Prakash Dhal, “Electrospun magnetic polyacrylonitrile-GO hybrid nanofibers for removing Cr(VI) from water”, *Journal of Molecular Liquids* 326 (2021) 115364.
- Dr. S.Sahu, Dr. Pratap Chhotaray, “Crafting of Nano-rod self-assembling System: From Synthetically Well-designed Triazole based Molecule”, *Journal of Sol-Gel Science & Technology* (Submitted).
- Seven papers published in the journals notified on the UGC Website for Physics Dept.
- Dr. Swarnalata Jena has communicated 2 research papers entitled “Analytical estimation of energy dissipators: Viscous, Joulian and Darcy of viscoelastic fluid flow phenomena over a deformable surface”, Submitted to *Heat Transfer and "Application of Differential Transform method for MHD fluid flow and heat transfer"* Submitted to *Pramana Journal*.
- Dr. T.N. Samantra has communicated 1 research paper entitled “Mixed convective radiative heat transfer in a particle-laden boundary layer fluid over an exponentially stretching permeable surface” Submitted to AIP conference Proceeding.
- Mrs. Saubhgyalaxmi Singh has communicated 2 research papers entitled “Strongly summable Fibonacci difference Geometric sequences defined by Orlicz Functions”, submitted to *Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales. Serie A. Matemáticas* and “On Some Fractional order Binomial sequence spaces with infinite Matrices”, submitted to *New Mathematics and Natural Computation (NMNC)*.
- 2 research articles of Dr. G. K. Mahato has been accepted from January to March.
- Dr. B. K. Mahatha, Dr. S. B. Padhi, S. Ram, and Dr. G. K. Mahato\*, “Radiation, Chemical Reaction and Dissipative Effects on MHD Stagnation Point Nano-Fluid Flow past a Stretchable Melting Surface”, *AIP Conference Proceedings (Accepted) (SCOPUS)*.
- Dr. G. K. Mahato, Dr. S. Ram, Dr. S. B. Padhi, and Dr. B. K. Mahatha\*, “Radiative and Convective Heat Transfer on MHD Stagnation point Nanofluid Flow past a Stretchable Surface with Melting”, *AIP Conference Proceedings (Accepted) (SCOPUS)*.

#### **Faculty participation in Seminars/Conferences and Symposia**

- Dr. Sagarika Parida participated in FDP on “Entrepreneurship Education: Experience from Africa” on 28<sup>th</sup> Jan 2021, organized by Navjivan Center for Development.
- Dr. Sagarika Parida participated in the John Wiley & Sons research webinar: Libraries - From crisis to opportunity” on 10<sup>th</sup> March, 21.
- Dr. Sagarika Parida participated in the SPSR Webinar on ‘Navigating Your Journey from Research To Patent & How Patent and Publication Differ?’ organized by Society of Pharmaceutical Sciences and Research (SPSR) on April 18<sup>th</sup>, 2021.
- Dr. Sagarika Parida participated in Webinar on “Mental Health & Wellbeing at Workplace” on 15<sup>th</sup> April, 2021.
- Dr. Sagarika Parida participated in the online UGC sponsored refresher course in Environmental Science, held from 12<sup>th</sup> to 25<sup>th</sup> March, 21.
- Dr. Gyanranjan Mahalik participated in an online webinar on Types of Patents in India Organized by Turnip Innovation PVT. LTD. on 16<sup>th</sup> January 2021.
- Dr. Gyanranjan Mahalik participated in an online webinar on Cancer Awareness organised by Science Committee, Zoology & Biotechnology Department on 14<sup>th</sup> February 2021.



- Dr. Kalpita Bhatta participated in the International Conference on Biotechnology towards Nutritional Security and Human Health Organized by Department of Biotechnology, Rama Devi Women's University, Vidya Vihar, Bhubaneswar, Odisha, India held on 4<sup>th</sup> to 6<sup>th</sup> March, 2021.
- Dr. Bidyut Kumar Kundu has participated in National E Conference in Recent Advances in Applied Physics organized by Department of Physics, SoAS, CUTM on 8<sup>th</sup> April 2021.
- All faculty members attended the National E-conference On Recent Advances In Applied Physics organized by the Department of Physics, SoAS, CUTM on 8<sup>th</sup> April 2021.
- Dr. Bidyut Kumar Kundu participated in Second OCS Extended Lecture Series and Sixth Series of National Conference on “Recent Advancement in Materials Science (RAIMS–2020)” organized by Department of Chemistry, Veer Surendra Sai University of Technology, Burla, Sambalpur, Odisha, India held during 22<sup>nd</sup> –24<sup>th</sup> January 2021.
- Mrs. Saubhagyaxmi Singh from our department presented her research paper in Odisha mathematical society (OMS).
- All faculty participate in regular FDP'S organized by Zoological Survey of India based on Faunal Diversity in their Natural Habitat.
- Prof. Debaraj Rana , has participated in 15 days Webinar Series on Raspberry Pi Master Class, from 28<sup>th</sup> December 2020-13<sup>th</sup> 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 18<sup>th</sup> January to 1<sup>st</sup> 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 16<sup>th</sup> February-17<sup>th</sup> March, 2021 (Evening Session), organized by Pantech Prolabs India Pvt. Ltd, Tamilnadu.
- Prof. Debashree Debadatta Behera presented a paper on “Framework for clean Energy Products in Rural Areas of India”, 34<sup>th</sup> World Conference on Applied Science, Engineering and Technology, International conference: March 2021.
- Dr Sabyasachi Dey Participated in the AICTE sponsored Six Days Online Short Term Training Program (STTP) on “Contemporary Topics in Marketing” held from 22<sup>nd</sup> – 27<sup>th</sup> February 2021 organized by the Department of MBA of Ajay Binay Institute of Technology, Cuttack in association with the All India Council for Technical Education (AICTE), New Delhi.
- All the faculty members of School of Management participated in the webinar, “Information Systems Strategy Triangle” on 19<sup>th</sup> February, 2021 conducted by School of Management.

#### **Faculty requirement and development:**

- All faculty members were advised to attend FDPs/ Seminars /Workshops /Online Courses in summer vacation.
- All the faculty members are actively involved towards contributing for their respective research center and all are given time till mid-November to focus on capacity building through attending online FDPs, enrolling and pursuing online courses at Coursera, Udemy etc. All the faculty members of School of Management attended a demo of a statistical software package called “Systat 13.2” through which several statistical analyses can be done just like the most used SPSS software.
- Faculty development programm based on “Grant writing best practice; from research through writing” was organized by Centre for drug design and SoPLS at Madhusudan block, CUTM,BBSR.

- All the faculty members are actively involved towards contributing for their respective research center and all are given time till mid-November to focus on capacity building through attending online FDPs, enrolling and pursuing online courses at Coursera, Udemy etc.

#### **IT resource:**

- One virtual room provided with IT resources.
- Biovia Software, JMP genomics and sequencer were used for research.
- All the faculty members are using Google meet and Zoom apps for conducting online meetings during lockdown period. Online classes were conducted on Impartus platform for this currently ongoing semester since 13<sup>th</sup> July, 2020. Impartus platform was closed since 17.11.2020 and since then all the online classes are being taken by the faculty members through the Google meet platform.
- Faculty members are given the facility of orkund and turnitin to check the plagiarism of their articles before sending for publication.
- CUTM, Timesheet tracker has been installed centrally so that every employee can submit their daily work report from home to the Management every day.

#### **Lab/ workshops development (equipment & others):**

- The Department of Botany set up a new laboratory Genetics and Genomics and inauguration was done on 4<sup>th</sup> Feb, 2021. Chemicals for the Botany lab and new lab were procured.
- Equipment and chemicals were not procured for the laboratory in this quarter.
- A multispectral camera was procured for the ML-domain for agricultural research activities.
- IMFA- MMC back filling material block testing in our ATC lab, UTM for compressive test UCS calculation.

#### **Physical Facilities:**

- Classes were done in physical mode for the quarter.
- Proper classrooms provided to each discipline.

#### **Library Facilities:**

- Free orkund id is provided to all faculty members centrally to check the similarity index of the manuscripts before submitting to the publisher for the publication. Faculty members are also using Turnitin to check the plagiarism of their research papers and even the PhD scholars are also using Turnitin to check the plagiarism of their thesis.

#### **Facility for e-content:**

- Faculty members prepared E-content of their respective subjects they taught that was collected centrally by the University and uploaded in the website for reference by the students.
- Different certificate courses & Skill courses were designed and developed by different faculties.
- 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.
- Camera Operator and Video Editing were prepared by Dr. Chinu Bohidar whereas Digital Painting, Adobe Tools and Illustrator and Digital Publishing were prepared by Mr. Saban Maharana. All the contents were prepared by the faculty itself.

## CSR Activity:

- M.Sc and B.Sc students participated in 26<sup>th</sup> January, Republic day parade at CUTM Campus and M.Sc group got the best parade award.
- On the occasion of National Science Day 2021:
  - Event: Instant Debate (Impromptu) on the Pros and Cons of Space Technology and Impacts of Corona Pandemic on Human Society. Winner Manisha Dash, Univ Reg ID: 200705170046, M.Sc. (Bot) 1<sup>st</sup> year.
  - Event: College Making, Theme: Environmental Impacts of Covid-19 Lockdown: Pros and Cons, Name: Ruplin Nayak, Univ Reg ID: 180704160006, B.Sc. (Bot) 3<sup>rd</sup> year got first prize. Swagatika Barik Univ Reg ID: 200705170039, M.Sc. (Bot) 1<sup>st</sup> year got 3<sup>rd</sup> prize.
  - Event: Tech PPT; Themes: Sustainable Use of Natural Resources: A Need of Future Generations and Colonizing Moon and Other Planets: Future Outlooks: Winner- Tejaswinee Das, Univ Reg ID: 180704160005, B.Sc. (Bot) 3<sup>rd</sup> year 1<sup>st</sup> and Ankita Choudhury Univ Reg ID: 200705170059, M.Sc. (Bot) 1<sup>st</sup> year 3<sup>rd</sup>.
  - Event: Science Quiz (Team Event): Winner Puspashree Das Univ Reg ID: 200705170063 M.Sc. (Bot) 1<sup>st</sup> year.
- M.Sc and B.Sc troop took part in 26<sup>th</sup> January, Republic day parade at CUTM Campus and M.Sc troop got best parade award.
- Aman Kumar Gupta, 180704100010, 6<sup>th</sup> Sem BSC Chemistry, Bhubaneswar is the winner in the Patriotic Poetry Writing competition for the occasion of 72 Republic day.
- Akash Kumar Behera, 200705100046, 1<sup>st</sup> Year M.Sc. Chemistry, Bhubaneswar is the winner in the Poster making competition for the occasion of 72 Republic day.
- Subhashree Khuntia, 180704100011, 6<sup>th</sup> Sem BSC Chemistry, Bhubaneswar has participated in Smart Thinker Challenge competition for the occasion of Annual Cultural & Literary Meet Shatajyotee-21 @ Gajajyoti-2021".
- Piyali Deb, 180704100001, 6<sup>th</sup> Sem BSC Chemistry, Bhubaneswar has participated in Smart Thinker Challenge competition for the occasion of Annual Cultural & Literary Meet Shatajyotee-21 @ Gajajyoti-2021".
- Students participated in Smart Thinker Challenge competition for the occasion of Annual Cultural & Literary Meet Shatajyotee-21 @ Gajajyoti-2021".
- M.Sc and B.Sc troops took part in 26<sup>th</sup> January, Republic day parade at CUTM Campus.
- Students took part in Sports activities like Shortput, Discuss throw, Kabaddi and Basketball.
- Different activities were planned for staff and students to celebrate 10 years of Centurion University.
- Students of MBA first year collected funds contributed by themselves and they celebrated women's day on 8<sup>th</sup> March, 2021 by visiting a few slums and donated sanitary napkins for the women residing in slums.
- Students of School of Media participated in various sports and cultural activities organized by Centurion University of technology and Management.
- 'Click my Pic'- A photography competition was organized by the School of Media and Communication. All the students of BA and MA participated in the internal competition.
- Saraswati Puja Celebration
- Participation In 17<sup>th</sup> Dhauli Kalinga Mahotsav
- Observation of 72<sup>nd</sup> Republic Day
- Participation of students in Inter Fresher's Sports Meet
- Participation of Students in Gajajyoti 2021 Events (Painting competition, Handicraft competition, Ad Mad Show, Treasure Hunt).

**Meetings/activities organized by Alumni Association:**

- Virtual Alumni Meet: Homecoming Event @ Centurion University was conducted on 30-12-2020 from 4:00-6:00pm.

**Details of campus placement:**

- Muskan Maharana, Archisman Mishra and Rishikesh Mishra from M.Sc program were selected in Nobrokers technology pvt.ltd
- Shital Pradhan of M.Sc was selected in OMICS International Pvt. Ltd
- Nilamadhav Dash of M.Sc has been selected in Pulsus Health Tech LLP, Chennai.
- Both M.Sc and B.Sc Students registered and participated in various campus drives of different companies organized by University.
- 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, Surya International etc.
- Two of the M.Sc Graduate Students got an offer to join Navodaya Vidyalaya as TGT's.
- Two of the M.Sc Graduate Students qualified for the GATE-2021 examination.
- One student of MSc Graduate got an appointment as Junior Entomologist in Jajpur Primary.
- Students (Preeti Chhanda Rout, Soumya Suravita Mahapatra, Supriya Nayak, Aashirbad Maharana, Lovely Sahoo) got placed in TCS.
- 3 students (Nitish Kumar Mahanand, Aashirbad Maharana, Puspa Karmakar) got placed in Accenture.
- Abdul Rehman got placed in Planet Spark.
- Abhigyan Abhisekh, Rudra Prasad Mohanty got placed in Edwiser.
- Abdul Rehman, Subham Mohanty got placed in Squareyards.
- Lovely Sahoo, Epili Bhargab, Asutosh Nanda got placed in Silicon Techlab Pvt. Ltd.
- 3 students got placed in Extramarks.
- Soumya Prakash Acharya got placed in Pie Infocom.
- Athitra B Nair (170301130004) – TCS – 7<sup>th</sup> January 2021.
- Sudhir Samal (170301130011) – Bizzrun Management Trainee Sales – 13<sup>th</sup> Jan 2021.
- Aditya Kumar Sharma (170301130010) - Flexon Technologies – 10<sup>th</sup> February 2021.
- Sudhir Samal (170301130011) – EDWISOR -15<sup>th</sup> Feb 2021
- Deblina Chakraborty (170301130013) – SQUAREYARDS – 17<sup>th</sup> Feb 2021
- Sudhir Samal (170301130011) - SQUAREYARDS – 17<sup>th</sup> Feb 2021
- Lalit Dash (160301130034), Sudhir Samal (170301130011) – Extramarks – 28<sup>th</sup> Feb 2021.
- Soumyaranjan Mishra, Subham Patra have been placed in Laxmi Agni Components & Forgings Pvt. Ltd. Maharashtra.
- Mandeep Bose has been placed in Ronch Polymers Pvt. Ltd, Pune
- Rajreeta Dash 192105240007 and Ch. Alisha Patro, 182105240025 placed in Pulsus Health Tech LLP.
- Nine final year students of MBA and two from MBA-DA have been placed at ICICI bank.
- Eight final year students of MBA and one from MBA-DA has been placed at Nucifera Entertainment Pvt. Ltd.
- 1 MBA student was placed at PinClick.
- 3 MBA students were placed at FinPe

### **No of Students benefited by guidance for competitive examinations and career counselling:**

- Kabyashree Diptimayee Sahu cleared GATE exam 2021.
- Students are preparing for NET and other competitive examinations.

### **Leadership and Management**

#### **Professional development / administrative training programmes:**

- Faculties were attending their research center training program every day as per the schedule given by the Registrar.
- Prof (Dr.). Abhinna Chandra Biswal had given a talk on Industrial IOT & Automation
- Dr. Jharna Majumdar had given a talk on autonomous navigating vehicle where all our faculties attended
- In future it was proposed to bring some external experts to provide new research prospective to students and faculties.
- Faculties were attending their research centre training program every day as per the schedule given by the Registrar.
- In future it was proposed to bring some external experts to provide new research prospective to students and faculties.
- All the faculty members got exposure to preparing videos through Doodly and adobe spark and all the faculty members updated their details at IRINS accounts as per the directions of Mr. Sunil Biswal, Chief Librarian, PKD campus.

#### **Teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes:**

- Dr. Gyanranjan Mahalik participated in a 14 days UGC-Sponsored refresher course in Environmental Sciences organized by UGC-HRDC Utkal University from 12<sup>th</sup> to 25<sup>th</sup> March 2021.
- Dr. Gyanranjan Mahalik participated in Virtual Faculty Development Program (FDP) on “Design and Development of MOOCs through SWAYAM” on 23<sup>rd</sup> March 2021.
- Dr. Gyanranjan Mahalik attended a two week FDP on Patent information course organized by Turnip Innovation PVT. LTD. on 29<sup>th</sup> March to 11<sup>th</sup> April 2021.
- Dr. Gyanranjan Mahalik attended, presented and published an abstract in Agri-Vision-2021: International Conferences on Plant Science in the Post Genomic Era organized by Institute of Life Science (ILS), Bhubaneswar on 14<sup>th</sup> -16<sup>th</sup> March 2021.
- Dr. Sagarika Parida participated in FDP on ‘Acquiring Digital Competencies In Education; The Next Generation Pharmacist’ on 7<sup>th</sup> March, 2021.
- Dr. Sagarika Parida participated in FDP on “Design and Development of MOOCs through SWAYAM” on 23<sup>rd</sup> March, 2021.
- Dr. Sagarika Parida participated in FDP on “Ecosystem for Sustainable Farmer Producer Organization (FPOs) on 9<sup>th</sup> April, 21.
- Dr. Sagarika Parida participated in FDP on Creating Online Courses through Open Educational Resources (OER)” on 11<sup>th</sup> Feb. 21.
- Dr. Bidyut Kumar Kundu participated in the international education and skill summit – TIESS-2021 from 27<sup>th</sup> to 30<sup>th</sup> January 2021 organized by Indian Didactic Association committed to the progress of education and skill in India.
- Dr. T. Dash invited as a resource person to Kendrapara Autonomous College, Odisha

- Dr. Saubhgyalaxmi Behera presented a paper in the National seminar on Ferroelectric and Dielectrics organized by IQAC and Department of Physics, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur in January 2021.
- Dr. S. Behera nominated as a reviewer in Engineering Science and Technology.
- Dr. S. Behera Participated in TEQIP - III sponsored four-day webinar, FMET-2021”.
- Two books Published in Amazon from Centre for New material applications.
- One book Published in Amazon from Centre for Lasers.
- Dr. Sitaram Swain attended SARC-RTMBTCP (Science Academies Refresher Course on Recent Trends in Molecular Biology Technology-Concepts and Practice) at Dr. B. R. Ambedkar University (Dr. BRAU), Srikakulam from March 2<sup>nd</sup> to 15<sup>th</sup> 2021.
- Mr. Gagan Kumar Panigrahi was selected to undergo a training program on SKILL VIGYAN at Institute of Life Sciences from March 25<sup>th</sup> onwards.
- Dr.Yashaswi Nayak attended a 10 day Refresher course in Environmental Science organized by HRDC of Utkal University.
- Prof. Suwendu Kumar Nayak Machine Learning for Natural Language Processing and Internet of Things Department of Computer Science and Engineering, Indian Institute of Technology Roorkee 22-01-2021 to 26-01-2021.
- Prof. Sasmita Kumari Nayak Machine Learning for Natural Language Processing and Internet of Things) Department of Computer Science and Engineering, Indian Institute of Technology Roorkee. 22-01-2021 to 26-01-2021.
- Prof. Sasmita Kumari Nayak Advancement of Intelligent System and Computation Computer Science & Engineering, JIS College of Engineering, West Bengal 20.04.2021 - 24.04.2021.
- Prof. Shivani Nanda Advancement of Intelligent System and Computation Computer Science & Engineering, JIS College of Engineering, West Bengal 20.04.2021 - 24.04.2021.
- Prof. Raj Kumar Mohanta Machine Learning for Natural Language Processing and Internet of Things Department of Computer Science and Engineering, Indian Institute of Technology Roorkee. . 22-01-2021 to 26-01-2021.
- Prof. Raj Kumar Mohanta NPTEL Online Course on Introduction to Soft Computing Indian Institute of Technology, Kharagpur 18-01-2021 to 21-03-2021.
- Prof. Raj Kumar Mohanta Machine Learning Master Class Pantech Prolabs India Pvt. Ltd. 19-04-2021 to 23-04-2021.
- Mr. Debaraj Rana, has participated & completed successfully AICTE Training and Learning (ATAL) Academy Online FDP on "Photography" from 9<sup>th</sup> February to 13<sup>th</sup> February 2021 at Dayalbagh Educational Institute, Agra, UP.
- Mr. Debaraj Rana, has participated & completed successfully AICTE Training and Learning (ATAL) Academy Online FDP on “Robotics" from 23<sup>rd</sup> February to 27<sup>th</sup> February 2021 at Shri Vishnu Engineering College for Women, AP.
- Dr. Rama Prasanna Dalai Attended 2 days training program on Solar Photovoltaic system design from 1<sup>st</sup> to 2<sup>nd</sup> March 2021, Attended a webinar on Applying Python in teaching & learning on 17<sup>th</sup> Jan 2021 Attended 2 days webinar on energy efficient distribution system from 8<sup>th</sup> to 9<sup>th</sup> Jan 2021 Completed Coursera Certification course on Introduction to Programming with MATLAB on 12<sup>th</sup> March 2021 Completed AI MASTER CLASS USING MATLAB at Pantech Prolabs India pvt ltd from 18<sup>th</sup> Jan to 1<sup>st</sup> Feb 2021.
- Dr. Surya Narayan Sahu Successfully completed Online FDP on Image Processing Using MATLAB (5 Days Workshop).

- Dr. Nimay Chandra Giri (CREE) successfully completed Designing Teaching under Outcome Based Education (ICT256) by NITTTR Kolkata, 25-29-1-21. Attended Skill Assessment in Laboratory and Guiding Students' Project (ICT289), NITTTR Kolkata, 22-26-2-21 Attended Entrepreneurship training in Renewable Energy Sector, 20-1-21. Attended Gateway to Green Power Monitoring, 10-02-21.
- Dr. Nanda Kishore Ray Attended One week (18-23 Jan 2021) Teachers Training Program on "Futuristic Techniques of Artificial Intelligence for Smart Grid management" organised by Oriental Institute of Science & Technology, Bhopal.
- Dr. Amit Kumar Sahoo Attended a NBA workshop on Outcome Based Education (OBE) & Accreditation on 18<sup>th</sup> February 2021.
- Prof. Debashree Debadatta Behera attended webinar on Supporting Clean Energy Technology Adoption in Jharkhand MSME on 13<sup>th</sup> February 2021.
- Prof. Debashree Debadatta Behera, Dr. R.C. Mohanty, Prof. Manas Ranjan Padhi attended regular CFD training delivered by Dr. Sekhar Majumdar.
- Dr. Sabyasachi Dey Participated in the AICTE sponsored Six Days Online Short Term Training Program (STTP) on "Contemporary Topics in Marketing" held from 22<sup>nd</sup> – 27<sup>th</sup> February 2021 organized by the Department of MBA of Ajay Binay Institute of Technology, Cuttack in association with the All India Council for Technical Education (AICTE), New Delhi.
- Dr. AmulyaRatna Behera, Mr. Chinmaya Chidananda Behera, Mr. Himansu Bhusan Samal Mr. Suman Kumar Mekap, Mr Ashirbad Nanda, Mr. Rudra Narayan Sahoo, Mr. Vivek Barik, Ms. Lipsa Samal, Miss Sucharita Babu, Ms. Jyoshna Rani Dash have completed certification programme on Good Clinical Practice (GCP).

#### **Strategic Plan:**

- Research activity was done on Genetics and genomics and drug discovery and it was planned to set up a genomics laboratory.
- Planning to organize national and international conferences.
- To increase the number of research publications within these six months so as to have a good score in NIRF.
- Planning to organize virtual Conference on Advanced Materials.
- Planning to develop new domains (LASER and new materials) and their corresponding labs in collaboration with industry. Each domain must have some theory, practice, project and internship. It must focus on emerging technology areas.
- Planning to modify the M.Sc syllabus by introducing new skill and domain courses.
- Planning to introduce a new M.Sc course in nano and composite materials
- To train all students for various national competitive examinations like JAM/NET/GATE etc.
- Each research center was asked to publish at least 1 book & 1 patent.
- Ph.D faculties were asked to submit project proposal for different funding agencies
- To increase the number of research publications within these six months.
- Team SoM also submitted the data for Atal Ranking for Institutions Innovation Achievement (ARIIA) for the University on 31<sup>st</sup> March, 2021.
- It is decided to arrange more pre-placement training for interested students for marketing and other Jobs.

### **Community engagement:**

- Both B.Sc and M.Sc Botany students visited the Asha Kiran Home to share their love and affection towards the inmates on 26<sup>th</sup> Jan 2021
- Both B.Sc and M.Sc visited to **AMA GHARA, Patrapada, Bhubaneswar** (Working for the Cause, Care & Concern of the Children of Mentally Ill & Mentally Challenged Destitute Women) along with other students and spend two hours with the kids. To commemorate National Girl Child Day a poster making activity on the theme "**Beti Bachao, Beti Padhao**" was organized by following Covid-19 guidelines.
- School of Management, Centurion University organized an innovative and action learning oriented program for financial services sector professionals and leaders in Nepal. The training program on "Nano, Micro and SME Entrepreneurship Ecosystem Development " aimed to provide the participants a nuanced understanding of the role, opportunities and challenges specifically related to access to credit and markets among others that NMSMEs face in their evolution. The program was designed to help the Banking and Micro-Credit sectors in Nepal to identify, assess and foster the development of social entrepreneurship in key sectors such as agriculture and other industries. The program was coordinated by Dr. Umakanta Nayak, Dr. Girija Nandini and Dr. Madhumita Das. Students from BBA, MBA also assisted the faculties during the training program.

### **Consultancy:**

- Dr. Rukmini Mishra received a grant of 30 lakhs from DST, Govt. of India for the project entitled "Engineering anthracnose resistance in chilli pepper (*Capsicum annum L*) using a single transcript CRISPR/Cas9 genome editing system "under the scheme of SERB POWER-GRANT.
- Dr Rukmini Mishra has virtually defended her DBT project entitled "Eco Typing, chemotyping and genotyping of *Embeliaribes Brum F.* for authentic identification, selection and conservation of elites which was shortlisted by Joint DBT-AYUSH Expert Committee. It is under consideration.
- There was a meeting at the departmental level to apply for more projects to different funding agencies.
- Dr. Srikanta Sahu has submitted a project entitled as "Development of turn on fluorescent probes for early detection of cancer and their potential applications in real-time tumor surgery of critical organs" to **SERB-DST**
- A project proposal on PEST control in agriculture was submitted to BIRAC.