



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

# **Centurion University of Technology and Management**

## **Bhubaneswar Campus**

### **IQAC Minutes of Meeting (July –September 2020)**

Date : 16<sup>th</sup> Oct 2020

Time : 11.00 AM

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. UmakantaNayak (Dean SoM)
5. Prof. PragyanParimitaDebata (HoD, Mechanical)
6. Dr. Kamal Kumar Barik (HoD, Civil)
7. Dr. Sujata Chakrabatty (HoD, CSE)
8. Dr. Subrat Kumar Pradhan (IQAC Coordinator ECE)
9. Dr. Ramaprasana Dalai (IQAC Coordinator EEE)
10. Dr. Dipankar Bhattacharyay( Dean, SoAS )
11. Dr. AtiaArzoo (HoD,Chemistry)
12. Dr. TumbanathSamantara(HoD,Mathematics)
13. Dr. Amiya Singh(Dean, SoVET)
14. Dr. NibeditaNayak(IQAC Coordinator Physics)
15. Prof. Sunil Kumar Jha (Dean SoPAHS)
16. Dr. SaratKumar Jena (IQAC Coordinator SoMC)
17. Dr. Yashaswi Nayak(HoD, Zoology)
18. Dr. Rukmini Mishra (HoD, Botany)
19. Dr. Gurudutta Pattanayak (Dean, SoPLS)

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

- Student Admission Related
- Teaching and Learning
- Research and Publication
- Resource Acquisition
- Support and Progression
- Leadership and Management
- Values and Best Practices
- New departmental responsibility list was published.

- Discussed about subject allotment to faculty member
- Research review meeting was carried out and as per discussion each faculty needed to publish at least 3 papers in a reputed journal.
- Special attention to slow learners based on 1<sup>st</sup> internal mark.
- Course progress report was sent to Dean Academics for each subject.
- Mapping and identifying various files as per new criteria at the department level.
- Keep on updating the NAAC files regularly.
- Due to Covid-19, classes are going on online through Impartus.
- All students were intimated about the new course structure and were instructed to register for 3 core subjects along with the Domain subject.
- Some online class overlapping issues were identified and faculties were advised to sort out the issues by proper ERP Configuration.
- All faculties were asked to submit their course progress report on a weekly basis and also a Google sheet was circulated to fill it up.
- All professors were suggested to take extra remedial classes for newly registered students to complete their syllabus in stipulated time and also advised to mention the schedule for all extra classes' timings and number of classes required for it.
- All professors' research progress was discussed and different ideas were suggested to complete their targeted publications as soon as possible.
- All professors were asked to continue their tutorial classes and suggested to inform the timing and status of the tutorial class.
- All professors were suggested to evaluate their student's E-Lab record and provide the status about that.
- All mentors were suggested to check the Credit requirement of final year students and monitor their mentees credit calculation such that they won't face last moment credit shortage problems.
- All Professors were suggested to Conduct MCQ Practice test for their theory subjects (through google Form) before the commencement of 1st internal exams for the students.
- Faculties were asked to stay at home and maintain a 8hrs of Work in a timesheet by doing various online activities.
- Faculties were asked to upgrade their skill competency by completing various courses in Courseware.
- Updating (Mapping and Identifying) of the NAAC files as per the availability of data as per the new criteria at the departmental level.
- First internal examination of the odd semester was conducted and completed in online mode in the month of August 2020 through Cocubes platform.
- Un-registered students were followed-up and the authorities supported the students with permitting them to clear dues at a later date with flexibility of instalments.
- Stakeholder feedbacks were collected online from students, alumni, parents, Industries and Faculties on the curriculum followed for the BOS.
- BIRAC proposal submitted with Team during August 2020.
- E-Lab Records were implemented for students to submit their learning.
- Introduction of Big Blue Button.
- Timesheet app made mandatory to report the working of minimum of 8 Hours per day.
- New targets of Publications, Patents and Projects were discussed.
- Many e-contents were prepared and posted on CUTM Courseware.
- Virtual labs were also tried to make students able to do labs through open platforms and remote desktop facilities.

### **Admission related**

- Admission coordinators were advised to design departmental activity templates.
- Total booking of students under the SoMC for new session : 09
- Handled by the admission team with due coordination of Team of faculty members from SoVET.
- 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.
- BSc, M.Sc, M.Phil and PhD students got admitted.
- Online orientation of the revised syllabus for B.Sc (3<sup>rd</sup> and 5<sup>th</sup> sem) and M.Sc (3<sup>rd</sup> Sem) students were conducted.
- For the on-going 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.
- In This quarter as students are not available in campus/class we are unable to perform any kind of group activity (workshop/career counseling).But the Dept. faculties are connected with the admission team throughout this admission season, and giving counselling as well as clearing doubts of interested candidates over phone whenever required.
- For West-Bengal region we are connected with Mr. Sourjabrata Ghosh(Admission In charge, West-Bengal)
- For Odisha we are connected with Mr. Ghanasyama Jena(Admission In charge, Odisha)
- Admission – Total booking of students under the school for new session : 90+ for BBA program and 60+ for MBA Program (Central Admission Team data)
- The University authorities advised to take proper measures to avoid physical contamination during admission. If possible maximum work should be done online.
- Department authorities were in touch with the admission team every time when necessary to solve any admission related query asked by guardians.
- 4 no. of EE/EEE students and 2 no. of Lateral entry students have got admission for this academic year.

### **Teaching and Learning**

- All the faculties have gone through online classes virtual impartus and big blue button due to covid 19 in the month of March.
- All courses to move to minimum Theory-Practice or Project made
- All the faculties have prepared doodly and Adobe spark videos related to all certification, domain, and branch specific courses.
- Have as many simulations/ v labs as part of it
- Video recorded lectures to be made available to students for content ( about 50% of the course time) as a backup in a semester time
- All courses to have minimum 20% online delivery
- All classes are going on smoothly according to the new syllabus and attendances of students are given according to online attendance.
- Online presentation of lesson plans by faculty members completed for the assigned subjects in presence of the Dean and HoD of the department.
- Time-table prepared for the odd semester for 17 weeks (as per the academic calendar hosted in the CUTM website)
- PhD progress seminar presentation done virtually for all existing PhD scholars of the department in presence of HOD, Physics, faculty members and supervisors.
- External Examinations for laboratories were conducted.
- The department has revised the syllabus for the 2020-2021 academic sessions and introduced many advanced subjects and domain courses like Data Science and Machine learning, Cloud Technology, AR/VR and Cyber Security.
- All the faculties developed the course content and session plan for their respective subjects and published it in courseware.cutm.ac.in. This website also contains the curriculum, the method of teaching and evaluation. Students are having open access to this website. Academic calendar and the detailed syllabus and regulations are published on our university website.
- The department has conducted orientation programmes for the first-year students to familiarize them with the opportunities available at the university and its expectations from them.
- Student Feedback is also collected on teaching and learning by the HOD and is communicated to the respective faculty members to bring further improvement in weak areas.
- Faculty development programmes targeting the personal and professional growth of the faculty are organized on a daily basis (2hrs/day) during July to September.
- The faculties are given remedial classes to students who are having backlogs in core subjects.
- Video recorded lectures to be made available to students for content (about 50% of the course time) as a backup in a semester time.

### **Assessment**

- Class test1 and internal evaluation had been completed online.

- Students are accessed by internal and external examination, project and assignment in online mode. Students attended their final examination by online mode.
- It was conducted in online mode. The result was shared to the concerned students on 15<sup>th</sup> September 2020 through their College mail id.
- EOD practical examination of even Semester was conducted as per the schedule released from examination cell.
- At present students are preparing for the second internal assessment which will be in the form of PPT presentation in online mode.
- The University updated some examination policy, attendance rule and evaluation procedure for all type of subjects which is notified to the students in advance by the registrar of the University through a notification. This is also available on the website (courseware.cutm.ac.in) for the students reference
- The courses to be taught in this semester have been uploaded in the courseware and faculty members are following the guideline and the syllabus developed and uploaded for teaching online.
- Orientation programmes for both B.Pharm 1<sup>st</sup> Semester and D.Pharm 1<sup>st</sup> year is going on through Google meet app with numbers of resource persons from both industry and academia.
- Students are preparing for the second internal assessment.
- Virtual labs for students are conducted for subjects were feasible.

#### **Student Performance:**

- Mentors are advised to talk to students so that more students should register for EOD who are having less than 4 back papers.
- The mentors have been followed up pass out students for clearing back papers.
- Student performance remains satisfactory during the quarter. All students of BAMMMC and MAMC are attending online classes except a few students are unable to attend class due to personal reasons and network issues. All students attended the first internal examination.
- Enclosed the 1<sup>st</sup> Internal Marks in the excel sheet shared by the exam cell.
- Students have done well in the first internal test. The pass percentage of all core subjects is 100%.
- Three of B.Sc students, Nirvan Abhilash, Sidhant Kumar Panda & Mousumi Jena participated in the International Astronomy and Astrophysics Competition (Online) and qualified the Pre-Final round and got certificates.
- Students performed well in the first internal test. The pass percentage of all core subjects was satisfactory.
- Semester online examination results were published and students had secured very good Grades.

#### **Students Activity:**

- All the 3<sup>rd</sup>, 5<sup>th</sup>, 7<sup>th</sup> semester students are assigned with various domain and minor projects.
- SDP, seminar, and webinars are organised at the department level.
- Students are involved in writing assignments, online presentations and writing project work.
- Organised and conducted the orientation program for 1<sup>st</sup>sem students 2020-21, from 21-30 Sept 2020. Program Schedule enclosed for your reference. Total student attended- 85 (Including all campuses of SoVET)
- Students were preparing ppt for their second internal test which will be on the basis of PowerPoint presentation.
- On 29<sup>th</sup> July Department of Zoology celebrated International Tigers Day by conducting webinar, Quiz competition and Students poster presentation in online mode. The Resource person was Dr. Lala A.K Singh.
- Students appeared for EOD exams, attended online classes and also completed internal test-1.
- Students are involved in preparation of SIP reports, conducting projects as well as delivering 'Flip' classes.
- M.Sc. and B.Sc. students participated in leading a Purposeful Life organized by an inspire group of CSR cells from 14<sup>th</sup> to 18<sup>th</sup> August 2020.
- Students were asked to attend the Regular FDP (4-6 PM) to upgrade their skills and give presentations on their skill expertise.
- On 25<sup>th</sup> September Department of Pharmacy and Life Sciences celebrated Pharmacist Day through online mode by conducting webinar, Quiz competition and Students poster presentation.
- Presently students are preparing for their second internal test which will be on the basis of PowerPoint presentation.
- Students from B.Sc. Optometry was facilitated in different hospitals in Bhubaneswar and Cuttack for their internship and project.

- Ms. Shradhanjali Padhi, 3rd Year- BSc. RIT student received 2<sup>nd</sup> prize in the debate competition.(Extempore held on 15th September 2020).

### **Students Welfare:**

- Counseling of students for regularly attending online classes and submitting project.
- Counseling on higher education and research.
- Counseling of students to adopt the changing situation with positiveness in approach.
- Students are counselled for paying their fees.
- A National conference was organized by the Department of Botany, School of Applied Sciences, on 4<sup>th</sup> July 2020 on the topic “Biotechnological approach towards crop improvement”. In the inaugural session Dr. Rukmini Mishra, HoD, organizing secretary, Botany Department, addressed the session. The aim of the national conference was to enlighten the participants especially to the students about the recent biotechnological move toward crop resistance, crop development and also crop improvement. Four keynote speakers Dr. Raj Kumar Joshi, Dr. S K Pradhan, Dr. Naresh Ponnam and Dr. Adwaita Parida delivered their speech on the given theme.
- Remedial Classes were organized for poor performing students by respective faculty members.
- 2 students were shortlisted to take admission in Ph.D. under guidance of Dr. Mohammed Siddique.
- There was an annual review of existing Ph.D. students through the Zoom link and it was found satisfactory.
- Soft copy of all courses as per the syllabus were prepared and uploaded in the courseware app. Students were advised to use the app during this Covid situation.
- Students were provided with soft copies of assignments, MCQ Questions, Numerically etc. to help them in online classes.
- A V-lab platform was created to conduct and evaluate Lab classes virtually.
- 3 students were shortlisted to take admission in Ph.D. under guidance of Dr. Yashaswi Nayak and 1 student under the guidance of Dr. Sitaram Swain.
- Since the month of July to September 2020 four webinars were organized by the Department of Zoology, School of Applied Sciences, for overall academic development and intellectual knowledge of the students.
- A National Virtual Conference was also organized by the Department on 8<sup>th</sup> August 2020 based on the theme “Challenges and Opportunities in Applied Zoology. In the inaugural session Dr. Yashaswi Nayak, HoD, organizing secretary, Zoology Department, addressed the session. The aim of the national conference was to enlighten the participants, especially to the students about the wide range of opportunities and advancements in the field of Zoology. The conference included an extensive program of technical presentations and dynamic discussions focusing on the wide range of opportunities and advancements in the field of Zoology by 7 keynote speakers.
- Department has focused on backlog students, conducted meetings with final year students and suggest how to clear their backlog details within this academic year. Data has been prepared and submitted to the Dean Office.
- Counseling of students for regularly attending online classes and submitting projects.
- Counseling on higher education and they are also advised to work hard on their placement preparedness and appearing and taking part in all the training and development initiatives conducted by the Career Development Team.
- Nearly 10 students were shortlisted to take admission in Ph.D. under guidance of various faculty members.
- Conducted an annual review meeting of existing Ph.D. students through Zoom link and the progress was found to be satisfactory.
- Since the month of July to September 2020 three webinars were organized by the Department of Pharmacy and Life Sciences, to boost up the overall academic development, outlook and intellectual knowledge of the students.

### **Student Training:**

- LSD classes were initiated for all the eligible students.
- Base line or Cupet test, AMCAT, my perfection has been initiated for students.
- Summer placement training, Cocube pre assessment training were carried out.
- Students are provided with online training in the area of Digital Painting and Adobe Illustration by faculty members. Students are advised to produce digital based contents.
- M.Sc. students were trained in Simulia tools to complete their domain course.
- All students are trained to use courseware app.
- All the students were trained on using courseware app for attending classes in online mode.

- Students are preparing the coding in hacker rank platform.
- 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 were given training online, how to appear as a baseline test for eligible to sit in a campus recruitment process and also students appeared for the test and the qualified list was published by the placement cell.
- Students were trained through exercising their Verbal & Analytical skills through First naukri in order to provide direct Interviews in various MNCs by First naukri.
- Skill and training programs were planned internally and externally for 7th and 5th semester students to increase their scores up to 80% in AMCAT and also increase the employ-ability standard for them.
- 8 Students from MSc CMB are undergoing the PCR/ antigen/ antibody training for COVID examination.

### **Placement Training**

- 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 tests were held.
- Employability Training and Self-Assessment by British Council - Aspiring Minds, Cocubes, iCalibrator, Eureka, OPTCL, Pegasus, Showhow2, My perfection.
- Online training was arranged to get students ready to appear for placement interviews.

### **Job Preparedness**

- MOCK interviews and GD and PI were planned at the department level.
- Counseling for UGC NET Examination and industry ready positions carried out by the faculty members.
- In this Pandemic period, personal counseling and doubt clearing online classes were carried out for CSIR NET aspirants by concerned faculty.
- Students participate in job preparedness activities conducted by placement and training cell.
- Job readiness course offered by SoM for both MBA and BBA students which is of six credits entirely in practice mode. Baseline test conducted by placement team in which all the students appeared. Students all registered for a perfective platform to undergo practice tests as a part of their job preparedness.
- In this Pandemic period, personal counseling and doubt clearing online classes were carried out by concerned faculty.

### **Student Mentoring**

- All the mentors were advised to take feedback from students regarding online classes.
- All the mentors were advised to take feedback Regarding Online Class Issues, Subject Registration Issues and course fee
- Student mentoring is carried out by faculty members of the SoMC.
- Online mentoring was carried out each week.
- Mentors are frequently interacting with students and parents and informing about online classes and projects. Academic updates and personal problems of mentees are being followed strictly.
- Mentoring was done by faculty members for B.Sc. and M.Sc. students and also asked for course fees.
- Mentoring (online) was done by faculty members for B.Sc. and M.Sc. students.
- Mentors are frequently interacting with students and parents and informing them about online classes. Academic updates and personal problems of mentees are intimated to the parents.
- All the mentors were also advised to interact with parents as well as students regarding current semester teaching and learning updates in online mode.
- The Mentors are connected with their respective mentees throughout this quarter over phone and also conducted weak wise online sessions with their respective mentees to discuss their problems if any. At the end each month each mentor shares a brief report of their mentees, which contains all the critical cases. Finally the consulted report generated by the department and shared with the Head of. The department. Every month in the HOD meeting this report is presented in front of the DEAN and higher management. The important issues addressed are like.
  - Individual backlogs and action plan
  - Issues raised by students during online classes

- Training and Placement related issues
  - Admission Fees related issues
  - EOD related issues
  - Specific issues if any
- Student mentoring is carried out by all the faculty members of the SoM with their respective mentees.
  - For every 20 students there is a mentor assigned. Mentors are regularly interacting with parents and informing about academic updates and personal problems of mentees.
  - All the mentors are advised to interact with parents as well as students regarding current semester teaching and learning updates.
  - 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 frequently interacting with students and parents and informing about online classes and projects. Academic updates and personal problems of mentees are being followed strictly. Mentors are following up with the mentees regarding their attendance and academic progress.

### **Student satisfaction Survey**

- All the mentors are regularly encouraged to take feedback and faculties are taking doubt clearing classes regularly.
- Student satisfaction survey is carried out and remedial action is initiated.
- Online feedback was taken from Students for the newly developed syllabus.
- Online feedback was taken from Students for the newly developed syllabus and for online semester examination.
- Students were instructed to fill up the feedback form online regarding the new syllabus and online semester examination.
- On 29<sup>th</sup> September 2020 an online survey was conducted by the dept. of CSE to collect feedback related to academic and curriculum design. In this online survey a total of 49 students participated and shared their feedback. The compiled report of the same analysed and circulated for action initiation.
- Online feedback was taken from Students for the online semester examination centrally.
- A survey was conducted regarding the pros and cons of the online semester exam by the Examination-in-charge where many students had participated and gave their valuable feedback.
- Students were instructed to fill up the feedback form through online mode regarding the curriculum, teaching methodology and online semester examination.
- Meetings of CR and Vice CR were held with the DEAN and HOD in July to discuss the online session and academic curriculum for odd semester 2020.
- The meeting was held on 11th August 2020, with the CRs and Vice CRs for the feedback of ongoing online classes.

### **Faculty and Staff**

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

- All the faculties from the mechanical department have been attending in house FDP through online.
- In this quarter faculties were working from home and daily work reports were maintained in the University timesheet.
- Dr. Kalpita Bhatta presented and participated in the international virtual conference on “Vermicomposting and organic Farming” on topic Macrophytes uniflorum on 29<sup>th</sup> and 30<sup>th</sup> August 2020.
- An International Webinar was organized by Department of Botany, School of Applied Sciences, Centurion University, Odisha on 16<sup>th</sup> August 2020. The theme of the webinar was Life science Research in Pre and Post Covid Era. Eminent speakers from leading institution of the globe, Dr. Kartika Padhan (National Institute of Health, USA), Dr. Tejram Sahu (Johns Hopkins University, USA), Dr. Kalicharan Patra (Karolinska Institute, Sweden), Dr. Jitendra Badhai (The Cancer Research Institute, The Netherlands) spoke elaborately about the fate of Life Science research in Pre and Post Covid Era.
- All faculty and staff members were notified to stay at home due to Covid-19 and will continue their work from home (online mode) and will give a filled timesheet every day for attendance purposes.
- Management announced Promotion for which 2 faculties Dr. Swarnalata Jena and Dr. Mohammed Siddique both had applied for the post of Associate professor through API score.
- Due to the Covid situation, faculty members were asked to work from home (online class and other assignments) and the work report was maintained in the University timesheet.
- Management announced Promotion for eligible faculties.

- All the faculty and staff members were advised to stay at home due to Covid Pandemic and practice work from home through the internet and submit daily work reports to the Management through Timesheet tracker.
- Time tracker sheet was introduced to record daily routine work and upload before 12amevery day.
- Faculty development programmes targeting the personal and professional growth of the faculty are organized on a daily basis (2hrs/day) during July to September.
- Faculties were regularly advised by the Registrar to obey COVID 19 Guidelines circulated by Central Government.
- Time tracker sheet was introduced to record daily routine work and upload before 12amevery day.
- On 1st August 2020- FDP Programme for all the faculty members of Centurion University was conducted by Dr. Kumar Abhishek (Asst. Prof. Hi-tech Medical College.) on the topic “COVID 19 and symptoms associated with it.”
- All the faculty and staff members were advised to stay at home due to COVID epidemic and work from home and submit their daily work report in time sheet track and also in Google sheet.
- All the faculty and staff members were attending the online FDP on a daily basis organized by D.N. Rao Sir and Departmental FDPs

### **Research and Publication**

- Mr. Rajesh Kumar Mohanty, Mr. S.K. Sabut, Dr. R.C. Mohanty's paper titled “A Systematic Review on Design Technology and Application of Polycentric Prosthetic Knee in Amputee Rehabilitation”, Physical and Engineering Sciences in Medicine, Springer, 2662-4737, vol43, pg no.781-798 has been published.
- Mr. Vijay Kumar Garlapati, Mr. Sudhansu Bhusan Mohapatra, Mr. Ramesh Chandra Mohanty, Mr. Premanand Das paper titled “Transesterified OlaxScandens oil as a bio-additive: Production and Engine performance studies” Tribology International, Elsevier has been accepted.
- Mr. Manas Ranjan Padhi, Mr. Amar Kumar Das Dulari Hansdah & Mr. Achyut Kumar Panda paper titled “Optimization of Engine Parameters and Ethanol Fuel Additive of a Diesel Engine Fuelled with Waste Plastic Oil Blended Diesel” Process Integration and Optimization for Sustainability has been accepted.
- Mr. Shiv Sankar Das, Dr. Debashree D. Behera, Mr. Ajit Ku. Pradhan, Book Name-Clean Energy Products: A Path for Attaining Livelihood Security Notion Press, Available in Amazon, ISBN no 9781636691602 has been published.
- Dr. Debashree .D. Behera, Mr. Shiv Sankar Das book Chapter titled-" Development of a Solar Energy operated Fish dehydrator for the livelihood security of fisherwomen of South Odisha “National Press Associates, New Delhi 978-81-947590-5-8 has been published.
- Mr. Rasmi Ranjan Panda paper titled “A critical review on hybrid aluminium metal matrix composite”, conference, ICAPSM, 2020.
- Dr. Ambika Shankar Mishra. YouTube, Education and the Youth: A Perceptual Analysis” in Indian Journal of Natural Sciences, ISSN- 0976 – 0997, Volume-10, Issue-60, P-23047-23053.
- Dr. Ambika Shankar Mishra. Issue editor for Centurion Journal of Multidisciplinary research for 2 issues. The issues are Vol.10, Number-1 & Vol.10, Number-2.
- Manuscript submitted entitled: Elementary Framework for an IoT based Diverse Ambient Air Quality Monitoring System for possible publication in Multimedia Tools and Applications, Springer, on 5 Sept 2020.
- Dr. Rukmini Mishra, article title “Genome Editing Strategies towards Enhancement of Rice Diseases Resistance” on Rice Science Journal, Springer has been published.
- Dr. Sagarika Parida, article title “All Green Leafy Vegetables Used by Seven Tribes of Odisha, India” Plant Archives, Scopus has published.
- Dr. Sagarika Parida, article title “Micronutrient Foliar Spray on Growth Performance of Green Gram (Vignaradiata L.)” Asian Journal of Biological and Life Sciences, Scopus has published.
- Patent published by Mrs. Swarna Prabha Jena and Mr. Subrat Kumar Pradhan on “Automated Portable Diagnostic System and Method for the Patients in COVID Hospitals” During September 2020.
- Dr. Gyanranjan Mahalik, article title “Studies on the use of plants and plant parts by the tribals of Malkangiri district, Odisha for different rituals and medicinal uses”, Plant Archives, Scopus has published.
- Dr. Gyanranjan Mahalik, article title “Studies on the impact of agrochemicals used on the croplands of Jagatsingpur District, Odisha, India” in journal Current Applied Science and Technology, Scopus has accepted.
- Ms. Bhageyswari Behera “Free floating hydrophytes and their utility: An appraisal” Indian Journal of Natural Science, Web of Science has published.



- Mr. Srimay Pradhan “A study on diversity of Lichen in the North-West transitional zone of Mayurbhanj district of Odisha, India” Indian Journal of Natural Science, Web of Science has published.
- Mr. Srimay Pradhan “Lichen: A potential source of phototherapeutic agent” Indian Journal of Natural Science, Web of Science has published.
- Prof.KalpitaBhatta “Antibacterial and Antifungal Activity of Alternantherasessilis (Linn.) R.Br.ex DC” International Journal of Life science and Pharma Research, Web of Science has published.
- Mr. Srimay Pradhan, “Nanotechnology for post-harvest treatment”, one book chapter has published in Bentham Science publisher.
- Mr. Srimay Pradhan, “Nano sensor for food quality monitoring” another book chapter accepted in Bentham science publisher.
- Dr. Rukmini Mishra, article title “Engineering drought tolerance in plants through CRISPR/Cas genome editing”, 3 Biotech, Springer has published.
- Dr. S. Sarangi published one paper in an SCI Journal.
- Dr. S. L. Behera published one paper in an SCI Journal and 3 conference proceedings in UGC.
- Dr. Santosh Satpathy published one paper in a Scopus indexed Journal.
- Dr. Subhraj Panda published one paper in an SCI Journal.
- Mr. Rudra Narayan Sahoo published 1 research paper in SCI indexed journal.
- Dr. Harish Chandra Mohanta, Abbas Z. Kouzani, and Dr. Sushanta K. Mandal Design of Highly Efficient Meta surface Rectenna” International Journal of Electronics.
- Ms. Lipsa Samal published 1 research paper in UGC care indexed journal.
- Mr. Himansu Bhusan Samal has communicated 2 research papers in Scopus indexed journal.
- Dr. Priyanaka Dash has communicated 2 research papers in SCI & Scopus indexed journal.
- Book chapters have been communicated by all the faculty members for their respective research centres.
- Dr. K K Barik, Dr. P C Mohanty, Dr. S Nanda, Dr. R Annadurai, Dr. R S Mahendra (2020). Assessment of coastal vulnerability of northern Odisha, India based on Earth Observation Technique, Journal of the Indian Society of Remote Sensing (Springer), Vol. 48 (11).
- Dr. K K Barik, Dr. S K Baliarsingh, Dr. A K Jena, Dr. S Srichandan, Dr. A Litolkor (2020). Satellite Retrieved Spatio-temporal Variability of Phytoplankton Size Classes in the Arabian Sea, Journal of the Indian Society of Remote Sensing (Springer), Vol. 48 (10).
- Dr. S R Panda, Dr. K K Barik, Dr. S P Mishra (2020). Watershed Management of Joda-Barbil Mining Area, Odisha, India: A Geospatial Approach, Current Journal of Applied Science and Technology, Vol. 39(31): 105-115.
- Dr. Rajashree Behera, Dr. Siba Prasad Mishra, Dr. Sipalin Nayak, Dr. Sagarika Panda, Dr. Mohammad Siddiqui (2020) Toughness Factors Reflections ONM-40 CC by Part Ousting Cement by SCBA & Adding Siyali fibre, Journal of Scientific Research and Report, Vol. 26 (6),pp. 107-118.
- Dr. S P Mishra (2020). Epidemiology of Zoonoses Geared by Domestication with Reference to Covid-19 during Anthropocene; India, Archives of Current Research International ISSN: 2454-7077ISSN: 2454-7077.
- Dr. Rashmi Ranjan Samal, Dr. Durga Charan Sahoo & Dr. Sagarika Panda (2020). Partial replacement of aggregates with E-waste and Flysh aggregates in Concrete, Journal of Shanghai Jiaotong University, Vol. 16(7), pp. 792-802.
- Dr. Dharmaraj Sahoo, Dr. Sagarika Panda, Dr. Satish Nayak (2020) an Experimental Investigation On Ferrocemet: Comparative Study, Journal of Shanghai Jiaotong University, Vol. 16(7).
- Dr. Jyotirmayee Sethy & Er. Sagarika Panda (2020) Multi level Car Parking, Journal of Shanghai Jiaotong University, Vol. 16 (7).

#### **Teachers awarded National/International fellowship for advanced studies /research:**

- Dr. Susanta Kumar Biswal is conferred with Innovative Research and Excellent Educationalist Award by Innovative Scientific Research Professional Malaysia.
- Mr. Chittaranjan Routray is conferred with Innovative Research and Dedicated Teaching Professional Award by Innovative Scientific Research Professional Malaysia.

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

- Dr. Mohammed Siddique has published 1 research paper in Scopus indexed journal.
- Dr. Goutam Kumar Mahato has published 1 conference proceeding research papers.
- Dr. Swarnalata Jena has published 3 research papers in Scopus indexed journal.

- Dr. Ashish Kumar Sahoo has authored a research paper entitled as “soft template assisted synthesis of PbS nanoparticle and its application” (Communicated to IJNOS)
- Dr. Dojalisa Sahu Published a research paper “Enhanced hydrogen generation efficiency of methanol using dielectric barrier discharge plasma methodology and conducting sea water as an electrode in Heliyon 6 (2020) e04717.
- A research paper Dr. Dojalisa Sahu entitled as “Exhibition of Novel Photocatalytic Activity and Photoluminescence Properties with High Inhibition Towards Bacterial Growth by Hydrothermally Grown ZnO Nanorods has been accepted and will be published in Current Nanoscience, 2021, 17, 1-8
- Dr. Dojalisa Sahu also communicated one research article as “Sm<sup>3+</sup> driven enhancement in photocatalytic degradation and photoluminescence properties of hexagonal-ZnO nano columns” to Journal of nano express.
- Dr. Pratap Kumar Chhotaray has authored a research paper entitled as “Recent Advances in Deep Eutectic Solvents Based on Gas Capture” which was accepted for publication in Industrial & Engineering Chemistry Research a SCI Journal
- Dr. Sraban Kumar Sahoo has published a research article entitled as “Magnesium oxide Nano particles decorated iron oxide Nanorods: Synthesis, characterizations and remediation of Congo red dye from aqueous media” in Composite Communications, 2020,22, 100496
- Dr. Sraban Kumar Sahoo has published a research article entitled as “Preparation of graphene oxide from bio shoot waste: An efficient adsorbent for highly noxious congo red dye in FlatChem,2020,24,100196.
- Another research paper of Dr. Sraban Kumar Sahoo entitled as “Removal of Congo red dye from aqueous solution using zinc oxide nanoparticles synthesized from Ocimum santum(Tulsi leaf) a green approach has been accepted for publication in International Journal of environmental analytical chemistry which is indexed in SCI.
- Dr. Susanta Kumar Biswal, Mr. Manoranjan Behera, Mr. Ardhendu Sekhar Rout, Ms. Arpita Tripathy, Green Synthesis of Silver Nanoparticles Using Raw Fruit Extract of Mimusopselengi and their Antimicrobial Study, BioInterface Research in Applied Chemistry,11(3), Sept. 2020, 10040-10051
- Mr. Ansuman Jena, Mr. Manoranjan Behera, Mr. Chittaranjan Routray and Dr. Susanta Kumar Biswal, “Fabrication, Characterization and Antibacterial Study of Polyvinyl alcohol/Cuprous Oxide Nanofluids and Polymer Nanocomposite Films”, Oriental Journal of Chemistry,36(4), Aug.2020,713-719.
- Ms. Archita Sahoo, Ms. Rikina Choudhury, Ms. Rajkumari Supriya Devi, Mr. Sachin Kumar, Mr. Srimay Pradhan, Dr. Susanta K Biswal, Mr. Sanjeet Kumar, “Evaluation of medicinal potential and antibacterial activity of selected plants against Streptococcus mutans”, ActaFytotechnica et Zootechnica(Accepted).
- Ms. Smruti Rekha Mohanty, Dr. Susanta Kumar Biswal, “An Overview of Removal of Heavy Metal Ions from Toxic Aqueous Solution Using PANI-Based Adsorbents”, Micro Nano systems (Accepted).
- Mr. C R Routray, Influence of  $\gamma$  - Irradiation on Properties of PAN (Poly Acrylonitrile) Fibers, Indian Journal of Natural Sciences, Vol.10 / Issue 62 / October / 2020, 27807-27811.
- Mr. Arun Kumar Pradhan, Dr. Atia Arzoo, Mr. Kanak Meher,” Elemental content present in waste salviniamoledstad .s.mitch. And it’s utilization in soil for soil quality improvement”, has been accepted for Publication in International Journal of Botany Studies.
- Dr. Srikanta Sahu has published a research article named as “Tailoring the performance of mechanically robust highly conducting silver/3D graphene aerosols with superior electromagnetic shielding effectiveness” in Diamond and Related Materials a SCI research Journal.
- Book/Book Chapter - Dr. Susanta Kumar Biswal co-authored a book chapter entitled as “Orchid bio-resources of Northeast, India and their conservation aspects” in Springer Nature Switzerland AG
- Dr. Srikanta Sahu has published a book named as “anion binding and self-assembling behaviour of small organic molecules as an author published by kindle edition (ISBN-13:979-8550503966).

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

- SoMC webinar on “Educational technology Challenges and opportunities”. Convener – Dr. Ambika Shankar Mishra, 31<sup>st</sup> August 2020.
- Center for Edu Tech, FinTech and Skill Tech webinar on “CopyRight Challenges and Content Production”. Convener – Dr. Ambika Shankar Mishra, 24<sup>th</sup> September 2020.
- Optical Communication Technology Advantages, Challenges and Opportunities, 6<sup>th</sup> July 2020.
- How to write an Effective Technical Paper, 28<sup>th</sup> August 2020
- The Renewable Energy Landscape in India, 21<sup>st</sup> September 2020.
- Instructional Workshop for Experience Management System, 2<sup>nd</sup> October 2020.
- Basics of Biovia Material Studio, 11<sup>th</sup> to 12<sup>th</sup> Sept 2020.

- Writing of a Good Scientific Research Paper and Selection of a Suitable Journal, 10<sup>th</sup> September 2020.
- Dr. Gyanranjan Mahalik participated in an online symposium on the topic “Development of genetic and genomic resources in foxtail millet: Progress and prospects” on 8<sup>th</sup> July 2020.
- Dr. Gyanranjan Mahalik participated in the National Webinar on “Journey from Bio fortification in food crops to including nutritional traits in varietal identification and release in Pearl millet” on 9<sup>th</sup> October 2020.
- Dr. Gyanranjan Mahalik participated in the National Webinar on “Improvement of storage, stability and productivity of rice through genetic engineering” on 18<sup>th</sup> July 2020.
- Dr. Gyanranjan Mahalik participated in the National Webinar on “The liquid gold, Agarwood oil: A product of pathogenesis” on 18 August 2020.
- Dr. Gyanranjan Mahalik participated in the National Webinar on “Weed Science: Challenges in the California Rice Systems” on 29<sup>th</sup> August 2020.
- Dr. Gyanranjan Mahalik participated in the National Webinar on “CRISPR in Agriculture: Context of Improving WUE” on 12<sup>th</sup> Sept 2020.
- Miss Kalpitta Bhatta participated in the International conference on “Beginning of an Era of precision therapies” organised by Safi Institute of Advanced Study on 23<sup>rd</sup> August 2020.
- Miss Kalpitta Bhatta participated in an International guest lecture on “Theranostics Approaches to Cancer Management” on 21<sup>st</sup> August 2020.
- Ms. Bhagyeeswari Behera attended an online seminar on 09<sup>th</sup> July 2020 “On Journey from Biofortification in food crops to including nutritional traits in varietal identification and release in Pearl millet” organised by Bioingene.com.
- All faculty participate in regular FDP’S organized by Zoological Survey of India based on Faunal Diversity in their Natural Habitat.
- Dr. Madhumita Das was invited to address the BBA and B.Com students of XITE, Jharkhand in the orientation program. Dr. Das addressed the newly admitted first- year students along with their parents to enlighten them about their career choice in Economics in general. In the whole 30 minutes presentation, she talked about new career choices and how the new age has brought new and varied opportunities for the students.
- Dr. Sabyasachi Dey attended a webinar on "Trade and Investment: The Post-COVID Scenario" conducted by ASBM University, Bhubaneswar on 21<sup>st</sup> August 2020.
- All faculty members attended the international webinar organized by School of Management on “Stability through VUCA Paradigms: Renovation of Business and Economy on 12<sup>th</sup> August 2020.
- All the faculty members as well as the students attended the ‘Demo on NVivo-A Qualitative research tool’ organized on 30<sup>th</sup> September 2020.
- Prof. Rama Prasanna Dalai Attended ICRISAT Conference during 24<sup>th</sup> and 25<sup>th</sup> July 2020.
- Prof. Rama Prasanna Dalai Presented a research paper for ICIES2020 Conference during 19<sup>th</sup> and 20<sup>th</sup> Sept 2020.
- Prof. Rama Prasanna Dalai Attended 5 days workshop on Learning by performing through Virtual Lab from 1<sup>st</sup> to 5<sup>th</sup> July 2020.
- Prof. Rama Prasanna Dalai Attended FDP on Application of AI for modern power systems from 20<sup>th</sup> to 24<sup>th</sup> July 2020.
- Prof. Rama Prasanna Dalai Attended 5 days FDP on Novel Technology in Electrical engineering from 10<sup>th</sup> to 14<sup>th</sup> August 2020.
- Prof. Rama Prasanna Dalai Attended an IEEE webinar on advances in current fed Power electronics system on 18<sup>th</sup> August 2020.
- Prof. Rama Prasanna Dalai Attended an AICTE sponsored STTP on optimal operation of power systems incorporating RES from 27<sup>th</sup> July to 1<sup>st</sup> Aug 2020.
- Prof. Rama Prasanna Dalai Attended a workshop on Power system analysis using ETAP from 3<sup>rd</sup> to 5<sup>th</sup> August 2020.
- Prof. Rama Prasanna Dalai Attended an AICTE ATAL online FDP on Green Technology & Sustainable engineering from 7<sup>th</sup> Sep to 11<sup>th</sup> Sep 2020.
- Prof. Rama Prasanna Dalai Attended the FDP on Recent advances on renewable energy technologies for sustainable development from 25<sup>th</sup> Sept to 29<sup>th</sup> Sept 2020.
- Dr. Sudhansu Kumar Samal Completed a webinar on Electric Vehicles and Mobility online course by ISIEINDIA E-Learning on 11<sup>th</sup> Aug. 2020.
- Dr. Sudhansu Kumar Samal Completed a webinar on Energy Management and Electrical online course by isieindia E-Learning on 11<sup>th</sup> Aug. 2020.

- Dr. Sudhansu Kumar Samal Completion a webinar on Simulating EV Setup-Simulation online course by isieindia E-Learning on 17<sup>th</sup> Aug 2021.
- Dr. Sudhansu Kumar Samal participates in TEQIP-III sponsored national webinar on “Recent trends in Physics” held on August 18<sup>th</sup> and 19<sup>th</sup> 2020.
- Dr. Nanda Kishore Ray Attended IEEE International Conference on Computational Intelligence for Smart Power System and Sustainable Energy (CISPSSE-2020), July 29-31, 2020, Odisha, India.
- Prof. Debaraj Rana , has participated in seven Days National level FDP on Recent Innovative Technologies from 25<sup>th</sup> June to 2<sup>nd</sup> July 2020 hosted by Department of Computer Applications, K.S.R College of Arts and Science for Women, Tamilnadu.
- Prof. Debaraj Rana, has participated in a one week Faculty Development Programme on Advancement in Communication Engineering Technologies with Simulation Tools, from 1<sup>st</sup> July -5<sup>th</sup> July 2020, organized by Department of ECE, Vishnu Institute of Technology, Vishnupur, Bhimavaram, Andhra Pradesh.
- Prof. Debaraj Rana, has participated in one week online Faculty Development Programme on Industrial Robotics & its Application from 6<sup>th</sup> July to 11<sup>th</sup> July 2020, organized by Mechanical Engineering Department, GMR Institute of Technology, Rajam.
- Prof. Debaraj Rana, has participated in two days National Level Workshop (Online) on Machine Learning with Python from 14<sup>th</sup> July to 15<sup>th</sup> July in association with SQUAD Infotech Pvt. Ltd, Mumbai organized by Shivajirao Kadam Institute of Technology and management, Indore
- Prof. Debaraj Rana, has participated in Short term training Programme through ICT Mode on Electrical and Electronics Circuit Analysis using MATLAB from 27<sup>th</sup> July to 31<sup>st</sup> July 2020, organized by National Institute of Technical Teachers Training and Research, Kolkata.
- Prof. Debaraj Rana has participated in TEQIP-III Sponsored faculty Development Programme on Recent Advances in Electronics and Communication Engineering (RAECE-2020) from 17<sup>th</sup> August to 21<sup>st</sup> August 2020, organized by Government college of Engineering Kalahandi, Bhawanipatna, Odisha.
- Prof. Debaraj Rana has participated in AICTE sponsored Short Term Training Programme (STTP) Phase II on Machine Learning with Python in Data Science-Application and Research Perspective on 7<sup>th</sup> September to 12<sup>th</sup> September, 2020, organized by Department of Information Technology, SRM Institute of Science and Technology, Tamilnadu.
- Prof. Debaraj Rana, has participated in World Largest 1 week hands on faculty Development Programme on Artificial Intelligence using Python from 14<sup>th</sup> September to 19<sup>th</sup> September 2020, organized by Department of Computer Science and Engineering, GMR Institute of Technology, Rajam in association with Brainvision Solutions India Pvt. Ltd., National Youth Council of India, Computer Society of India, and ISTE.
- Dr. Nimay Chandra Giri, has successfully completed an online quiz on Basic Electronics dated 22<sup>nd</sup> July 2020 organized by Bharathiyar Centenary Memorial Government Womens’ Polytechnic College, Ettayapuram.
- Dr. Nimay Chandra Giri, has participated in Webinar on Robotics and Automation process on 12<sup>th</sup> September 2020, organized by Bharati Vidyapeeth’s Institute of Computer Application and management, (BVICAM), New Delhi.

**Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes:**

- Dr Ambika Shankar Mishra Submitted joint project with Prof. Prajna Pani to Odisha state Open University on the theme “Issues and Challenges In Courseware Production: A Case Study In Odisha” on 07.09.2020 Students collected data online for project work under the supervision of the faculty members.

**Faculty requirement and development:**

- Dr. Rukmini Mishra joined on 1<sup>st</sup> August 2020 as Assistant professor.
- All faculty members were advised to attend online FDPs/ Workshops/Seminars/Webinars during lockdown.
- Almost all faculties have attended online webinars and FDPs.
- 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 faculty members were advised to attend FDPs/ Seminars /Workshops /Online Courses in during lockdown.

- Mr. Ranitava Banerjee, (Master in Clinical Optometry and Vision Science) is the new Faculty for Optometry.

#### **IT resource:**

- Demands are placed with IT cell for upgradation to digital platform.
- One virtual room provided with IT resources.
- BIOVIA software is used by faculties to boost their research activity. Faculties of genetics and genomics research centres are taking training for NGS.
- Through CUTM, Time sheet tracker every employee were submitting their work from home report online every day.
- Faculty members were trained to take online classes on the Impartus platform. Faculty and students were given login to Virtual Lab where lab records can be submitted and evaluated.
- Faculty members were given login to the plagiarism software's like Turnitin and Urkund to check the plagiarism % of their articles before sending for publication.
- University introduced an online timesheet tracker to monitor WFH reports.
- Courseware has been installed and every faculty member is directed to upload their study materials for online teaching.
- 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 everyday.
- 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 odd semester since 13<sup>th</sup> July 2020.
- CUTM, Timesheet tracker has been installed centrally so that every employee can submit their daily work report from home to the Management everyday.
- Every faculty member are given user id and password to access biovia material studio to build competency in it for developing new product by material research.\
- One virtual room provided with IT resources.
- All the faculty members were provided USER ID for running Biovia software to boost their research activities.
- Courseware software was developed by the University to make preparation of lesson plans and e-content submission.

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

- Maintenance of all equipment had been done.
- Some research activity initiated by both faculties and M.Tech scholars and PhD students in Advanced Testing Laboratory, Thermal Laboratory and EDM Laboratory.
- List of media equipment and estimation of budget is submitted to the university management.
- Equipment's and chemicals were not procured for laboratory in this quarterly.
- New equipment's and chemicals list were given to the purchase team.
- Faculties performed various Lab experiments through Virtual Lab during Covid19 Global Pandemic.

#### **Physical Facilities:**

- New classrooms, laboratory facilities and staff rooms are demanded.
- Proper classrooms were provided to each discipline. In this Covid19 period no physical classes were taken.

#### **Library Facilities:**

- In the department, some books have been purchased as per the requirement of Faculties.
- A list of books on digital media and film studies and critical study of media and communication is under process to be procured by the Central Library of CUTM.
- In the Departmental library all books are there for each subject. For upcoming academic sessions foreign author books will be procured for references.
- List of Books (Texts & References) for the upcoming course (zoology) submitted to the library for procurement.

- Free urkund id is provided to all faculty members centrally to check the similarity index of the manuscripts before submitting to the publisher for the publication.

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

- ALL the e-contents are available.
- E-Content production facility is available at SoMC.
- Lecture note and ppt were prepared by faculties of respective subject.
- Faculty members prepared E-content of the assigned subjects and uploaded in courseware app.
- 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.
- E-Content is being prepared by the faculty members for their own courses handled by them and regularly the contents are updated in the courseware.
- Faculty members prepared E-content of their respective subjects they are teaching in class and it was collected centrally by the university and uploaded in the website for ready reference of the students.
- Faculty members are asked to prepare their own videos through doodly and adobe spark video making apps.
- CSE, PE, MPMC, DG& MG, EMI, EM, EEM e-content was prepared by concerned faculties.

#### **Support and Progression**

##### **CSR Activity:**

- The closing phase of the UNLOCKED in LOCKDOWN - A Project on Self- engineering and Productivity: Part - I event was organized by CSR club. There are 31 students in 49 tracks nominated for the final round.
- All the students, faculties and staff members were joined to see the final nomination entries and encourage the participants and winners. All winners had received the certificate and award during the event only.
- Pratyasa Mohany, Akshay Sahoo, Sunanya Das, Arpita Dash and Subhashree Rout students of M.Sc. won the prize on different completion of the event.
- Students took part in CSR activity online on the theme Unlock in Lockdown due to covid-19 epidemic.
- The “Engineers Day” is celebrated across our country on 15<sup>th</sup> September every year as a tribute to the greatest Indian Engineer Bharat Ratna Mokshagundam Visvesvaraya. He was Indias most prolific civil engineer, dam builder, economist, statesman, and can be counted among the last century’s foremost nation builders. Speech & competition will be conducted for this occasion on 15th September 20.
- Winner: Shruti Dash, B Tech CSE-4th Year
- Runner Up: Sradhanjali Padhi, BSc-Radiology-3rd Year
- CSR cell came up with a new initiative-cum-competition nurturing your inner talent to inculcate and capture values which are sustainable and also contributing towards communities as a unique theme of “UNLOCKED in LOCKDOWN”. This competition is open for all students of Centurion University irrespective of campus/school/program. The idea is to engage students to inculcate and capture our values focusing on sustainability and contributing towards society.
- Students took part in CSR activities through online due to covid-19pandemic.

#### **Activity of Student Council & representation of students on academic & administrative bodies/committees:**

- Online registration was done for 8<sup>th</sup> convocation (virtual) and alumni meet on 5<sup>th</sup> Oct 2020.

#### **Details of campus placement:**

- Piyush Pradhan placed at Max Bupa on 5<sup>th</sup> August 2020.(Botany)
- Monalisa Giri placed at Tech Mahindra on 1<sup>st</sup> August 2020.(Botany)
- Pratyasa Mohanty and Piyush Pradhan place at Pulsus on 5<sup>th</sup> September 2020.(Botany)
- Both B.Sc. and M.Sc. students registered and participated in various campus drives of different companies organized by the 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.

- 11 students (Aashirbad Maharana, Ajit kumar jena, Hriteshk mallik, Ipsita Priyadarshini, K M Sai Kishore, Nitish Mahanand, Pradum kumar, Preeti Chhanda Rout, Rohan Kumar Das, Rohit Kumar, Trishna rani patel) got the placement on Unschool in the month of July.
- 3 students (Satya Kumar Tung, Soumya Ranjan Mishra, Sarthak Rout) got selected in tech mahindra in the month of August.
- 2 students (Rani Kumari, Shibani Panda) got selected in R K Infosystem in the month of September.
- 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 recruiting agencies.
- Pulsuspvt.ltd has conducted online campus recruitments of M.Sc. students by skype in September 2020.
- A M.Sc 2020 passout batch student Muskan Maharana has been selected as Technical Support Associate in Tech Mahindra (Noida) campus drive.
- International Centre for Technological Innovations (ICTI) has come for hiring fresher candidates from 2021 graduating batch | Job Position: Research Associates | Eligibility: All Graduate and Post Graduate Students | Last Date to Apply: 09<sup>th</sup> November 2020.
- M.Sc students Muskan Maharana (180705100061), Truptimayee Rath(180705100086) and Chandan Kumarsahu(190705100066) have been selected in Pulsus campus drive.
- Extramarks Education India (Mumbai) Campus hiring for 2020 graduates Batch shortlisted students are from M.Sc 2020 passout batch, Chittaranjan Biswal and Ramakanta Sahu.
- M.Sc students, Chittaranjan Biswal (180705100046), Rajat kumar sahu(180904100026) , Chandansaraf (170904100008), Saishmita Sahoo(180705100072) have been selected in ZYLA.
- Health Campus Hiring for 2020 graduating Batch on 26th September2020.
- One of M.Sc students named Nikita Rani Tripathy has been selected in the Bank of America campus drive held recently in September 2020.
- Capgemini Virtual Campus Recruitment for BSc (All branches) BCA from 2021 graduating batch: Last Date to apply- 18 September, 2020.
- Lido Learning Campus Hiring for 2020 & 2021 Graduating | B.Tech / BBA / B.Sc /B.Com /MBA Students in august 2020.
- M.Sc students Pramita Priyadarshani Panda, Sudhansybala Nayak, Animesh Lenka, Ramakanta Sahoo, Itishree Moharana, Anil Kumar Mallick have been selected in Sigma Electric Manufacturing Corporation Pvt. Ltd. - Online Campus Interviews in 10<sup>th</sup> August 2020.
- Max Bupa Hiring || MBA/BBA/B.Com/B.Sc/B.A/BCA 2019/2020 Graduates// Last Date to apply 13<sup>th</sup> July 2020.
- B.Sc and M.Sc Students have attended the Internshala launched by AICTE a ‘Mega Monsoon Internship Fair’ for all the students (first year to final year) from all streams/branches where companies like Sportskeeda, Yukthi Systems Pvt. Ltd., BoAT, Raymond and Near buy have participated.
- Abhilipsa Mohapatra, Achyuta Swain, Chandan Kumar Sahu, Muskan Maharana (M.Sc.) and Piyali Deb (B.Sc.) have been selected in Unschool Pvt. Ltd campus drive on 17<sup>th</sup> July 2020.
- One M.Sc student Chittaranjan Biswal was selected in Bank of America campus drive on 14<sup>th</sup> July 2020.
- Student appeared the test for Internship Opportunities @ Amigoz
- 10 no of students of SoPLS placed in different organisations. They are Abinash Rout, Budheswar Mallick, Taushif Alam, Tanmoy Nayak, Saswat Mishra, Sandipta Samanta, Goutam Dev Sahoo, Parijat Bhowmik, Sourav Kumar Barik & Niraj Kumar.
- Athira B Nair (170301130004) 7<sup>th</sup> Semester ECE was selected for the position of Accounts Operation Interns in My Perfectice on 7<sup>th</sup> September 2020.
- Priyanka Biswal and Debasnan Singh, 8<sup>th</sup> Sem ECE students (Now Alumni) have been selected in Tech Mahindra Campus Drive. They will be joining as E - Commerce Technical Support & Customer Support Profiles.
- Ms. Manisha Tripathy is placed at Lab Technician (Microbiology).AIIMS.
- Goutam Maity, Saikiran Das, Saroj Kumar Pradhan, Ankita Nayak, Jyotsna Priyadarshini are placed in Vijaya Diagnostic Centre, Hyderabad.

#### **Students benefited by guidance for competitive examinations and career counseling:**

- 45 students (Botany) benefited from career counseling. All are engaged in preparation of some competitive examination/ four students are placed in campus selection and other joined in different colleges as lecturers.

## Leadership and Management

### Professional development / administrative training programmes:

- One FDP was organized by the Department of Botany on 25<sup>th</sup> July 2020. Dr. Trilochan Mohapatra was invited as resource person. He is presently holding the position of Secretary, Department of Agricultural Research and Education, and is also the Director General of the Indian Council of Agricultural Research (ICAR). Prior to this, he served as the Director of the Indian Agricultural Research Institute (IARI), New Delhi, and the National Rice Research Institute (formerly CRRI), Cuttack, Odisha.
- Faculty Development Programs were conducted (centrally) every day on different topics of Engineering, Science, and Management through Zoom.
- Research centers were formed in different areas and from mathematics department faculties were involved in CFD, HPC, QC, Trajectory optimization subareas.
- Faculty Development Programmes were conducted every day from 4 to 6 pm on different science, engineering and research topics via Zoom.
- 26 Research centers were formed from different perspectives.
- Dr. S. Sarangi is heading the Centre for Space and Earth Sciences.
- Dr. Tapan Dash is heading the Centre for New Material applications. Dr. S. Behera, Dr. S. Satpathy and Dr. N. Nayak are members of the center.
- Dr. Padmaja Patnaik is heading the Centre for Lasers. Dr. S. Panda is a member of the center.
- All faculty members of the department were attending online FDPs and Webinars and also involved in research center works.
- Dr. P. Annan Naidu attended a program on AICTE-ATAL FDP ON DATA SCIENCE 21<sup>st</sup> September to 25<sup>th</sup> September 2020, AWS Express Training on Securing your AWS Cloud 14<sup>th</sup> September 2020, AWS Express Training on AWS Cloud Practitioner Essentials 28<sup>th</sup> September 2020, Jio Institute's Digital Symposium on AI for India 26<sup>th</sup> August to 28<sup>th</sup> August 2020.
- Ms. Sasmita Kumari Nayak attended program on AWS Express Training on AWS Cloud Practitioner Essentials 28<sup>th</sup> September 2020, AWS Express Training on AWS Technical Essentials 21<sup>st</sup> September 2020, Writing of a Good Scientific Research Paper and Selection of a Suitable Journal 10<sup>th</sup> September 2020, Emerging trends in Computer Science and Information Technology 10<sup>th</sup> July 2020, Virtual Workshop on Applications of Deep learning 8<sup>th</sup> July 2020.
- Ms. Mamata Garanayak attended a program on AWS Express Training on AWS Cloud Practitioner Essentials 28<sup>th</sup> September 2020, AWS Express Training on AWS Technical Essentials 21<sup>st</sup> September 2020.
- Mr. Rakesh Kumar Ray attended a program on Writing of a Good Scientific Research Paper and Selection of a Suitable Journal 10<sup>th</sup> September 2020.
- Mr. Raj Kumar Mohanta attended program on AWS Express Training on AWS Cloud Practitioner Essentials 28.09.2020, AWS Express Training on AWS Technical Essentials 21.09.2020, AWS Express Training on Securing your AWS Cloud 14.09.2020, Writing of a Good Scientific Research Paper and Selection of a Suitable Journal 10.09.2020, Webinar on MATLAB master class by Pantech Solutions in association with Institution of Electronics & Telecommunication Engineers (IETE, Mumbai) 01.09.2020 to 30.09.2020, Webinar on AI-Powering the Next Generation by Pantech Solutions 21.08.2020, Webinar on Hardware Security by Pantech Solution in association with KL deemed to be University 18.08.2020, Webinar on Emerging Growth of Virtual Reality (VR) and Augmented Reality (AR) by Pantech Solutions 14.08.2020, Webinar on Brain Computer Interface by Pantech Solutions in association with Kongu college of Engineering 08.08.2020, Webinar on Azure Administrator Associate (AZ-104) Training by Eventbrite 19.07.2020, Webinar Azure Fundamentals (AZ-900) Training by Eventbrite 18.07.2020, Webinar on Robotics operating system by Adama Science and Technology University Ethiopia in association with PanTech launches 17.07.2020, Webinar on Computer Vision Application Design by Atria Institute of Technology, Bengaluru association with Pantech Solutions 14<sup>th</sup> July 2020.
- All the faculty members prepared a demo video using Adobe spark tools and Doodly in order to get an exposure regarding preparing the course videos of the sessions using Adobe spark and Doodly.
- Transformer Training was conducted on each Saturday (06:00PM-7:00PM) for up to four week Prof. Amaledu Mohanty.
- Faculties were attending their research center training program every day as per the schedule given by the Registrar.
- Prof Dr. Abhinna Chandra Biswal also agreed to take one FDP session next Friday (6:00PM-7PM).
- In future it was proposed to bring some external experts to provide new research prospective to students and faculties.



- Organized a Webinar on the Renewable Energy Landscape in India on 21<sup>st</sup> September 2020. Prof. Nimay Chandra Giri and Prof. Debaraj Rana organized a webinar on The Renewable Energy Landscape in India on 21<sup>st</sup> September 2020 held at Bhubaneswar Campus, CUTM. The programme was on the emerging trends on the field of recent trends in the field of Renewable Energy in India. The invited speakers for the event were Dr. Usha Bajpai, Retired Professor, Department of Physics, University of Lucknow, UP, Dr. Mahendra Kumar Mohanty, Professor, BPCL Biofuel Chair, OUAT Bhubaneswar, Odisha, Dr. Pradipta Kumar Jena, Sr. Asst. Professor, OUAT, Bhubaneswar, Odisha. The event was held online through Google meet and there were more than 100 participants attended the events and made it a successful one.

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

- Prof. Debashree D. Behera attended ATAL FDP on solar energy: Technology and application and got certification.
- Prof. Debashree D. Behera attended ATAL FDP on Energy Engineering and got certification.
- Prof. Debashree D. Behera attended Webinar on the Renewable Energy Landscape in India on 21<sup>st</sup> September 2020.
- Prof. Debashree D. Behera attended FDP on "Solar Energy Potential, Opportunities and Challenges in India"
- Dr. Rukmini Mishra, Mr. Srimay Pradhan and Bhagyeeswari Behera and attended FDP on "Introduction to NGS" by AvinashDhar, "Basics of Genomics" by Prof. Ruth, "Jump statistic" by Prof. Murlidhar.
- Kalpita Bhatta, Dr. Gyanranjan Mahalik, Dr. Sagarika Parida participated in FDP "BIOVIA" , one month training programme for drug discovery research center.
- All faculty members of the mathematics department were attending online FDPs and Webinars and also involved in research center works.
- FDP in machine facilities, hydrophobic Nano materials on 1<sup>st</sup> July 2020.
- FDP by JK. Rath of Mechem Composites on 2<sup>nd</sup> July 2020.
- FDP on Biotechnology and tissue culture by Dr. Pushpalata and Bio fertilizer by Dr. Praveen on 3<sup>rd</sup> July 2020.
- FDP recording attached. It has a presentation on Tabletop Accelerator by Dr. Prasanta Rath and presentation on Biodiesel by Dr. Narayan Gouda on 4<sup>th</sup> July 2020.
- The FDP presentation & discussions by Dr. Ashok Das, Sun Mokshya; Mr. Abhishek, General Aeronautica; Dr. R N Sahoo, ICAR-IRI, Dr. K V RamanaRao, Scientist, SERB; Mr. Morup Mangil, IFFCO Kisan, Mr. Atul Bhatnagar. On 7<sup>th</sup> July 2020.
- Dr. Vishnu Vardhan to deliver a talk on Development and Testing of Farm Drying and Storage Equipment for paddy and Mr. Babu Shankar from Ekalavya group will talk on Mentoring on 8<sup>th</sup> July 2020.
- Talk on Global status of Fisheries and aquaculture vis-a-vis India's potential and challenges by Dr .M. V. Gupta, an eminent Fisheries Scientist and World food prize winner, Sunhak world peace prize winner. And Dr. Rosy Mallik, Dept. of Chemistry, SoAS, will present her Research work on 10<sup>th</sup> July 2020.
- FDP on Adobe spark tools by Dr. Amiya Singh and Adobe Team, Doodly tools by Mr. Abhi Mitra on 13<sup>th</sup> July 2020.
- Learnings from ROS FDP by Md. Debaraj Rana and Ms. Jeevaratnam and Dr. Supriya Pattanayak will present her research work on 14<sup>th</sup> July 2020.
- Session on Gaming Platform by Learning Links Foundation on 15<sup>th</sup> July.
- FDP by Mr. Raj VVN, President - German Varsity, Germany on 16<sup>th</sup> July.
- Session with Prof. Govindarajan on 17<sup>th</sup> July.
- On 18<sup>th</sup> July 2020, FDP on Resilient Leadership: Ensuring future readiness by exploring new opportunities during this time of Uncertainty by Mr. Damodaran Subramaniam, Managing Director, Safran Engineering Services
- FDP on E lab note\_Doodly\_Adobe Spark on 21<sup>st</sup> July
- Talk on pesticides in water ,the sources of contamination on 22<sup>nd</sup> July
- Prof. Govindarajan's session on How to do effective teaching on 23<sup>rd</sup> July.
- Prof. S B Moharan & Team demonstrated how to use the E Lab record on 24<sup>th</sup> July
- Dr. Trilochan Mohapatra, DG ICAR will deliver a talk on 25<sup>th</sup> July.
- Dr. Sujata Chakravarty presented on Hyperspectral imaging on 27<sup>th</sup> July.
- Presentation from Gooddot.in related to vegan meat on 28<sup>th</sup> July.
- FDP on my perfectice and National Education policy 30<sup>th</sup> July.
- FDP of the discussion on how to go about the Research and Application a reason 31<sup>st</sup> July.

- FDP on Skin Manifestation in Covid 19 presented by Dr. Kumar Abhishek, Medical Director and Consultant Dermatologist, Sk institute. 1<sup>st</sup> August.
- FDP on ML(Bone Fractures)\_FEA (Knee Joints)\_ Smart agriculture on 2<sup>nd</sup> August.
- Reduction of Wing Tip Vortex by using Active and Passive Techniques by Sangram Samal and Smart Transformer by Debasis Sahu on 5<sup>th</sup> August.
- FDP on Robotics – Computer Vision, Navigation, Tracking; Applications of Deep Neural Network by Dr. Jharna Majumdar on 10<sup>th</sup> August.
- Dr. Arun Kumar Pradhan has attended the international conference on emerging smart materials in applied chemistry held on 10<sup>th</sup> and 11<sup>th</sup> August 2020 at KIIT, Bhubaneswar.
- FDP on Image Processing to Computer Vision, Applications in AI and Machine Learning; by Dr. Jharna Majumdar on 11<sup>th</sup> August.
- FDP on Advance Video Processing – Role of Texture; Modelling Transition in Video; by Dr. Jharna Majumdar on 13<sup>th</sup> August.
- FDP on Aerial Image Exploitation - Unmanned Aerial Vehicle and Micro Air Vehicle; STUDSAT – The First Smallest Student Satellite in India; Ground Station for Tracking small Satellite by Dr. Jharna Majumdar on 14<sup>th</sup> August.
- FDP on Computational Fluid Dynamics – A Potential CAE Tool by Dr. Sekhar Majumdar on 17<sup>th</sup> August 2020.
- Dr. Dojalisa Sahu has attended the webinar on Material characterization and mechanical properties of Plastic on 18<sup>th</sup> and 19<sup>th</sup> August at Central Institute of Petrochemical Engineering & Technology (CIPET), BBSR.
- Dr. Dojalisa Sahu has attended the webinar on Innovation on moulding technology and TPM on 21<sup>st</sup> August and 22<sup>nd</sup> August 2020 at Central Institute of Petrochemical Engineering & Technology (CIPET), BBSR.
- FDP on Turbulence – The Chief Outstanding Difficulty of Subject by Dr. Sekhar Majumdar on 18<sup>th</sup> August 2020.
- Presentation by Burlington English 19<sup>th</sup> August Presentation by Dr. Tapan Kumar Rout, Principal Scientist, R&D, Tata Steel, Jamshedpur 20<sup>th</sup> August
- Session on End Notes by Clarivate publishing on 21<sup>st</sup> August.
- FDP sessions by Dr. Jharana Majumdar on 24<sup>th</sup> and 25<sup>th</sup> August
- Session by Mr. Mangesh Desai on topic Coal Briquettes from
- Agriculture Waste on 26<sup>th</sup> August Presentation by jmp.com Statistical Software on 28<sup>th</sup> August.
- Webinar by SoMC on ‘Educational Technology and Content Creation: Challenges and Opportunities on 31<sup>st</sup> August.
- Talk by Dr. J K Jena, DDG ICAR Fisheries on 1<sup>st</sup> September.
- FDP on how to strengthen your capability of writing a good scientific research paper and to learn the techniques of finding a suitable journal for your research paper on 15<sup>th</sup> Sept.
- FDP on 26<sup>th</sup> Sept 2020 Resource: Mr. Chakravarty Kannan, Sr. Vice President, Mahindra, Topic: Aspiring high to rise in the VUCA World.
- Prof. Debaraj Rana, has participated on seven Days National level FDP on Recent Innovative Technologies from 25<sup>th</sup> June to 2<sup>nd</sup> July 2020 hosted by Department of Computer Applications, K.S.R College of Arts and Science for Women, Tamilnadu.
- Prof. Debaraj Rana, has participated in a one week Faculty Development Programme on Advancement in Communication Engineering Technologies with Simulation Tools, from 1<sup>st</sup> July - 5<sup>th</sup> July 2020, organized by Department of ECE, Vishnu Institute of Technology, Vishnupur, Bhimavaram, Andhra Pradesh.
- Prof. Debaraj Rana, has participated in one week online Faculty Development Programme on Industrial Robotics its Application from 6<sup>th</sup> July to 11<sup>th</sup> July 2020, organized by Mechanical Engineering Department, GMR Institute of Technology, Rajam.
- Prof. Debaraj Rana, has participated in two days National Level Workshop (Online) on Machine Learning with Python from 14<sup>th</sup> July to 15<sup>th</sup> July in association with SQUAD Infotech Pvt. Ltd, Mumbai organized by Shivajirao Kadam Institute of Technology and management, Indore.
- Prof. Debaraj Rana, has participated in Short term training Programme through ICT Mode on Electrical and Electronics Circuit Analysis using MATLAB from 27<sup>th</sup> July to 31<sup>st</sup> July 2020, organized by National Institute of Technical Teachers Training and Research, Kolkata.
- Prof. Debaraj Rana has participated in TEQIP-III Sponsored faculty Development, Programme on Recent Advances in Electronics and Communication Engineering (RAECE-2020) from 17<sup>th</sup> August to 21<sup>st</sup> August 2020, organized by Government college of Engineering Kalahandi, Bhawanipatna, Odisha.
- Prof. Debaraj Rana has participated in AICTE sponsored Short Term Training Programme (STTP) Phase II on Machine Learning with Python in Data Science-Application and Research Perspective on 7<sup>th</sup> September

to 12<sup>th</sup> September 2020, organized by Department of Information Technology, SRM Institute of Science and Technology, Tamilnadu.

- Prof. Debaraj Rana, has participated in World Largest 1 week hands on faculty Development Programme on Artificial Intelligence using Python from 14<sup>th</sup> September to 19<sup>th</sup> September 2020, organized by Department of Computer Science and Engineering, GMR Institute of Technology, Rajam in association with Brain vision Solutions India Pvt. Ltd., National Youth Council of India, Computer Society of India, and ISTE.
- Nimay Chandra Giri, has participated in Webinar on Robotics and Automation process on 12<sup>th</sup> September 2020, organized by Bharati Vidyapeeth's Institute of Computer Application and management, (BVICAM), New Delhi.
- Prof. Harish Chandar Mohanta has participated & completed successfully AICTE Training and Learning (ATAL) Academy Online FDP on Sensor Technology during 21<sup>st</sup> Sept to 25<sup>th</sup> Sept 2020.
- Prof. Swarna Prabha Jena has participated in the FDP on "Data Science for All" during 27<sup>th</sup> July to 8<sup>th</sup> August 2020.
- Prof. Swarna Prabha Jena has participated in the webinar on "Brain Computer Interface Robot" on 12<sup>th</sup> July 2020.
- Prof. Swarna Prabha Jena has participated in the webinar on "Citation and Reference Management using Mendeley" during 14<sup>th</sup> August 2020.
- Prof. Swarna Prabha Jena has participated in the Webinar on "Robotics and Automation Processes" during 12<sup>th</sup> September 2020.
- Prof. Swarna Prabha Jena has participated in the Webinar on "Internet of Things (IoT)-Industrial Perspective" during 11<sup>th</sup> July 2020.
- Prof. Subrat Kumar Pradhan and Dr. Chandra Sekhar Dash has participated & completed successfully AICTE Training and Learning (ATAL) Academy Online FDP on Internet of Things (IoT) from 21<sup>st</sup> September to 25<sup>th</sup> September 2020 at National Institute of Electronics and Information Technology (Nielit)- Gangtok.
- Prof. Debaraj Rana, has participated successfully in AICTE Training and Learning (ATAL) Academy Online FDP on Data Science from 24<sup>th</sup> August to 28<sup>th</sup> August, organized by National Institute of Technology Srinagar, Hazratbal.
- Prof. Debaraj Rana and Mrs. Bhabani Dash has participated successfully in AICTE Training And Learning (ATAL) Academy Online FDP on Internet of Things (IoT) from 21<sup>st</sup> September to 25<sup>th</sup> September 2020 at National Institute of Electronics and Information Technology (Nielit)- Gangtok.
- Dr. Kamal Kumar Barik attended International webinar on Ocean data Processing by INCOIS, Hyderabad.
- FDP held in Center for Medical Diagnostics are Standard Operating process in Diagnostic Services(14<sup>th</sup> September 2020), Biomedical waste Management (17<sup>th</sup> September 2020), Biochemical investigations in Diagnostic division (21<sup>st</sup> September 2020), Introduction to Optometry and role of Optometrist in modern world (23<sup>rd</sup> September 2020), Python and Image Processing- I (25<sup>th</sup> September 2020), Fibroscan and Mobile Mammography (25<sup>th</sup> September 2020), Importance of Pathology in Diagnostic Center (28<sup>th</sup> September 2020), Computer vision syndrome; its association with mobile working (30<sup>th</sup> September 2020).

## **Values and Best Practices**

### **Strategic Plan:**

- Reorganization of the existing syllabus of MAMC. New postgraduate courseware (MAMC) is introduced by conducting BOS as per UGC guidelines. Skill courses are introduced in the area of Digital Publishing and Digital Painting by use of various Adobe tools by SoMC. The school has planned to offer five certificate courses under the research center 'Center for Edu-Tech, FinTech and Skill Tech'. The details of the courses are; 1. Certificate Course in Video Editing 2. Certificate Course in Camera Operator 3. Certificate Course in Adobe Tools and Illustrator 4. Certificate Course in Digital Painting 5. Certificate Courses in Digital Publishing SFS Courses offered by SoMC (2020-21) at present are: 1. Adobe Tools and Illustrator 2. Digital Painting 3. Digital Publishing.
- Research activity was done on Genetics and genomics and drug discovery and it was planned to set up a genomics laboratory very soon.
- Planning to organize national and international conferences.
- To increase the number of research publications in the next 6 months at least 2 by December.
- To integrate the research with modern software tools like Python, Biovia, Simulia etc. So as to get quality publications that can lead to patent publication.
- To give training to all faculty members in different areas as required by respective research centers.
- To increase the number of research publications in SCI/Scopus indexed journals.

- To develop expertise in Dassault tools like Materials studio.
- To develop some new materials in composites for E bike.
- To develop some diploma/advanced certificate courses with original videos and ppts.
- To publish online books
- To increase the number of research publications within these six months so as to have a good score in NIRF .
- To integrate the research with modern software tools like, Biovia's material and discovery studio, etc. so as 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.
- It was announced by Dr. Subhendu Mishra (PGP Coordinator, SoM, PKD) during the department online meeting via zoom on 1<sup>st</sup> September 2020 that a new program shall be introduced which would be collaboration between Centurion University and another external agency. The name of the program is tentatively titled as 'MBA in Rural and Development Management'. Further Dr. Subhedu Mishra requested the help and assistance from all the faculty members in this regard. A parallel semester shall also start very soon for the students who did not register on time for the odd semester and they are allowed to register later and the odd semester to be covered in a fast track mode for them so that they can catch up and join the students in the upcoming semester of session 2020-21.
- To increase the number of research publications with this six months so as 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. so as to get quality publications that can lead to patents 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.
- Student Mentoring is a regular practice in order to provide a solid platform of learning to the meets through parent and teacher collaboration.
- Faculties were asked to take advantage of COVID 19 Lockdown situation and publish 2 papers in Peer reviewed journals by staying at home to meet Research target set by the University to comply NAAC Requirements
- 26 research centers were created to strengthen the research activities of the university and all the faculties were assigned to a particular research center. Moreover different research targets were given by the management and faculties were required to comply within 3 months.
- To integrate the research with modern software tools like, Biovia's material and discovery studio, etc. so as to get quality publications that can lead to patents as well as new product design and development.
- To impart training to all faculty members in various software tools for meeting industrial competency and high quality research publications.

#### **Consultancy:**

- One project was submitted to DST by Dr. Rukmini Mishra, HOD of Department of Botany.
- There was a meeting at the departmental level to apply for more projects to different funding agencies.
- All the commitment of the meeting will be taken care of and will be submitted in the next meeting.
- There was a meeting at departmental level to apply for more projects to different State and Central funding agencies.
- All the commitments of the meeting will be taken care of and will be submitted in the next meeting.