NOTICE

The Board of Governors of I.G.I.T., Sarang in its 56th Meeting held on 30th April 2019 has constituted the Internal Quality Assurance Cell (IQAC) of the Institute as per the UGC guidelines for Autonomous Colleges for regular monitoring and improvement of academic and administrative performance of the Institute. The committee members of IQAC are as follows:

1. The Director, IGIT, Sarang (Chairman)
2. Registrar, IGIT, Sarang (Member)
3. Faculty members of the Institute (nominated for two years)
    a. Prof. Sudeep Kumar Chand (Member-Secretary)
    b. Prof. S. C. Patnaik (Member)
    c. Prof. B. D. Sahoo (Member)
    d. Prof. B. P. Panigrahi (Member)
    e. Prof. (Mrs.) U. Bhanja (Member-Convener)
4. External Experts (nominated for two years)
    a. Dr. Abhinna Biswal (Member)
    b. Dr. Mihir Sarangi, Associate Professor, Mechanical Engineering Department, IIT Kharagpur (Member)
5. One B.Tech. student from 3rd year

    Md. Azaruddin, Third year B. Tech., Computer Science and Engineering (Registration no.- 1701105431)

Director 25/05/2022

Director
Indira Gandhi Institute of Technology
Sarang, Dist. Dhenkanal

Internal Quality Assurance Cell
(IQAC)

Action Plans for Internal Quality Assurance Cells.

1. Implementation of annual plans for institute level activities for quality enhancement.
2. To receive feedback from students for teaching, learning process and other quality related institutional activities.
3. Development of quality benchmarks through annual personal assessment report (APAR) for the different academic and administrative activities of the institution.
4. Retrieval of information on quality parameters and best practices followed by other institutions.
5. Organization of workshops/faculty development programs/ seminars for promoting quality related institutional activities and disseminate the information through the Institute website.
6. Impart training to the students for placement, higher studies, and carrier counseling.
7. Participation in various programs conducive for quality education.
8. Development of innovative practices in various activities for quality enhancement.
9. Work for the development of institutional quality enhancement policies and practices.
10. Act as an Institutional nodal center for enhancing quality related activities.
11. Prepare annual quality assurance reports (AQARs).

(10)

IGIT/ - IQAC/01

Urmila Bhanja <urmila@igitsarang.ac.in>

31.08.2020

First online meeting for the Internal Quality Assurance Cell (IQAC) of IGIT on 2nd of September 3.00 PM

Urmila Bhanja <urmila@igitsarang.ac.in> Mon, Aug 31, 2020 at 1:00 PM
To: skchand2001@yahoo.com, sc_patnaik@igitsarang.ac.in, sc_patnaik@yahoo.com, Bidyadhar Sahoo <bdsahoo@yahoo.com>, Bibhu Prasad Panigrahi <bibhu89@yahoo.com>, Chittaranjan sahoo <crsahoo.iitkgp@gmail.com>
Cc: Principal IGIT Sarang <principal@igitsarang.ac.in>

Dear sir,

As advised by the Director, the first online IQAC meeting will be held on 2nd of September at 3.00 PM.

All the internal members are requested to attend the meeting. The link will be sent before 1 hour of the meeting (Google Meet).

Please kindly find the attached file with the list of IQAC members.

Thanks & Regards,
Dr. Urmila Bhanja
Member-convener

IQAC MEMBERS.jpg
250K

(12)

Indira Gandhi Institute of Technology
Sarang-759146

Internal Quality Assurance Cell

IGIT/IQAC/02 **02.09.2020**

Minutes of the meeting of the Internal Quality Assurance Cell held on 02.09.2020at 3.00PM in the chamber of the Director, IGIT

The following members were present:

1. Prof (Dr) Satyabrata Mohanta, Director (Chairman IQAC)
2. Prof (Dr) Sudeep Kumar Chand, Professor, Member Secretary, IGIT Sarang (Present online)
3. Prof (Dr)Suresh Pattnaik, Member, IQAC, Professor, IGIT, Sarang
4. Prof (Dr) Bidyadhar Sahoo, Member, IQAC, Professor, IGIT, Sarang
5. Prof (Dr) Bibhu Prasad Panigrahi, Member, IQAC, Professor, IGIT, Sarang
6. (Dr) Urmila Bhanja, Convenor, IQAC, Associate Professor, IGIT Sarang
7. (Dr) C.R Sahoo, Registrar, Member IQAC, Associate Professor, IGIT Sarang

- Director welcomed the members to the meeting and introduced the objectives of the IQAC cell and briefed the members on the purpose of the meeting.
-
- The following agenda points are discussed in the meeting.

1. It was decided to prepare the first annual quality assurance report (AQAR) for the year 2020-2021.The format for the AQAR to be downloaded from the UGC website and prepare the report as per the UGC guidelines.
2. **Curriculum related aspects:** Dean (Academics)has stated that the process of updating the curriculum and syllabus as per the AICTE rules/BPUT guidelines. Upgradation of the curriculum under autonomous structure by adding new electives and Professional development courses, industrial internship, massive online open courses (MOOCS), open electives, honors and minor courses are discussed for the benefit of the students.
3. **Teaching, Learning & Evaluation:** To improve the teaching learning process, all the classrooms are equipped with smart board facility. In order to have connectivity in all the classrooms the committee decided to provide GPON WiFi connectivity; so as conduct the classes in online mode during pandemic.
4. As IGIT has autonomy in conducting the examination and evaluation, certain reforms have been carried out at the internal examination level. It was decided to create awareness among all the faculties to frame the questions as per the Bloom's Taxonomy at the department level first. Also, a rule was made that students are given opportunity to check and avail revaluation of their answer scripts irrespective of the grades they have obtained to provide greater transparency in examination and evaluation system.
5. To update the faculty in knowledge of current trends in their respective fields as well in management, faculties are deputed to attend workshops and training programs under TEQIP-III to reputed Institutes of national importance.
6. It was decided to create Awareness programs on filing patents at IGIT through TEQIP-III.
7. It was decided to create Awareness programs on startups for encouraging the students for startups.
8. Proposal has been initiated to start regular Ph.D program admissions under IGIT autonomy

from the academic year 2021-2022 after getting Academic council approval.

9. Procurement of books/ journals for different disciplines as per the IGIT new curriculum is to be done.
10. It was decided to participate in the NIRF for the year 2019-2020.
11. To further improve career counseling for the students, it was suggested to name the Training and Placement cell as Carrier development cell, which will carry out students training, career counseling and placement activities.
12. **Institute Social Responsibility:** It was identified that several activities are already in place such as participation in NSS/NCC activities by students, participation in state cultural and sports activities by the students. The faculties and students are involved in the NSS, organizing blood donation camps etc.
13. As per the AICTE norms IGIT has adopted few villages around the periphery of the campus where they faculties/students can go and teach the school children and help in developing few skills. It was decided to check the progress of the development process.
14. Every year activities such as cultural, techno cultural events, fun fare are organized at the department and institution level, which are a part and parcel of a student life and is very much at place in IGIT.
15. Every year different national level cultural programs are organized on various occasions to exchange the cultures of different states under Ek Bharat Shrestha Bharat mission including Swachh Bharat Abhiyan mission (AICTE initiative).

The meeting ended with thanks from the chair.

02/09/2020

Prof (Dr) Satyabrata Mohanta Director (Chairman IQAC)

02/09/2020

Prof (Dr) Suresh Pattnaik (Member IQAC)

02/9/2020

Prof (Dr) Bidyadhar Sahoo (Member IQAC)

02.09.2020

Prof (Dr) Bibhu Prasad Panigrahi (Member IQAC)

2.9.2020

Dr. Urmila Bhanja (Convenor Member IQAC)

02.09.2020

Dr. C .R Sahoo (Registrar Member IQAC)

(13)

NOTICE

GIET/30
GIET/ST: IQAC/03

Dated 21.10.2020

As advised by the Director the internal committee members of the Internal Quality Assessment Cell (IQAC) will visit the following departments as per the schedule mentioned below for evaluating the SAR related documents for the NBA accreditation before the NBA visit. The documents for evaluation by the IQAC and the NBA are mentioned in the following link.

https://www.nbaind.org/files/evaluation-guidelines-tier-ii-v0.pdf

This may kindly be treated as urgent.

Schedule date of visit by the Internal Members of IQAC

Civil Engg: 11.11.2020

Chemical Engg:11.11.2020

Electrical Engg:12.11.2020

Mechanical Engg:12.11.2020

Mettalurgical & Material Engg:13.11.2020

21.10.2020

Dr. Urmila Bhanja

Advisor, NBA

Copy to:

1. PA to the Director for kind information of the Director
2. All the HoDs for kind information and necessary action

(14)

Proceedings of the Meeting of the Internal Quality Assessment Cell (IQAC) held from11-11-2020 to 13.11.2020.

IGIT/IQAC/04 13.11.2020

Members Present

1. Prof (Dr) Suresh Pattnaik, Member, IQAC, Professor, IGIT, Sarang
2. Prof (Dr) Bidyadhar Sahoo, Member, IQAC, Professor, IGIT, Sarang
3. Prof (Dr) Bibhu Prasad Panigrahi, Member, IQAC, Professor, IGIT, Sarang
4. Dr. Urmila Bhanja, Convenor Member, IQAC, Associate Professor, IGIT Sarang

1. The members of the IQAC visited all the departments physically as per the schedule notice dated 21.10.2020.
2. The members suggested the heads of the departments to keep all the necessary documents ready related to the NBA.
3. Members suggested to keep the Labs and rooms clean. Members also suggested to keep all the laboratory equipment clean.
4. Members suggested to replace the old lab manuals and displays with new lab manuals and displays.

13/11/2020
Prof (Dr) Suresh Pattnaik

13/11/2020
Prof (Dr) Bidyadhar Sahoo

13/11/2020
Prof (Dr) Bibhu Prasad Panigrahi

13.11.2020
Dr. Urmila Bhanja

(15)

NOTICE

IGIT/IQAC/05 Dated 10.04.2021

As advised by the Director, the internal IQAC meeting will be held on 21st of April 2021 at 11.00 AM in the Director's chamber. All the internal members are requested to attend the meeting.

Urmila Bhanja 10.04.2021

Dr. Urmila Bhanja
Convenor IQAC

Copy:

1. PA to the Director for kind information of the Director
2. All the members of the IQAC

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Indira Gandhi Institute of Technology
Sarang-759146
InternalQualityAssuranceCell

IGIT/IQAC/06

21.04.2021

Proceedings of the meeting of the Internal Quality Assurance Cell held on 21.04.2021 at 11.00 AM in the chamber of the principal, IGIT

The following members were present:

1. Prof (Dr)Satyabrata Mohanta, Director (Chairman IQAC)
2. Prof (Dr)Suresh Pattnaik, Member, IQAC, Professor, IGIT, Sarang
3. Prof (Dr) Bidyadhar Sahoo, Member, IQAC, Professor, IGIT, Sarang
4. Prof (Dr) Bibhu Prasad Panigrahi, Member, IQAC, Professor, IGIT, Sarang
5. (Dr) Urmila Bhanja, Convenor, IQAC, Associate Professor, IGIT Sarang
6. Mr. R.N Majhi, Registrar, Member IQAC, IGIT Sarang

Discussions are carried out on various aspects of quality enhancement and suggestions by the committee members are mentioned below.

1. It was decided that the self-finance departments to apply for the NBA
2. It was planned to participate in the national institute rank framing (NIRF) for the year 2020-2021 and to analyse the previous year's NIRF rank.
3. The progress of installation of gigabit passive optical network (GPON) was discussed.
4. It was suggested to start immediately the PhD program under IGIT autonomy system.
5. Student's placement progress was discussed.
6. Annual personal assessment report (APAR) is introduced as an employee's quality performance index.

The meeting ended with thanks from the chair.

21/04/2021

Prof (Dr) SatyabrataMohanta Director (Chairman IQAC)

21/04/2021

Prof (Dr) Suresh Pattnaik (Member IQAC)
(Member IQAC)

21/04/2021

Prof (Dr) Bidyadhar Sahoo
(Member IQAC)

21.04.2021

Prof (Dr) Bibhu Prasad Panigrahi (Member IQAC)

Urmila Bhanja 21.04.2021

Prof (Dr) Urmila Bhanja (Convenor Member IQAC)

21/4/2021

Mr. R.N Majhi (Registrar Member IQAC)

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NOTICE

IGIT/IQAC/07 Dated 10.12.2021

As advised by the Director, the internal IQAC meeting will be held on 20th of Dec 2021 at 11.00 AM in the Director's chamber. All the internal members are requested to attend the meeting.

Urmila Bhanja 10.12.2021

Prof. Urmila Bhanja
Convenor IQAC

Copy:

1. PA to the Director for kind information of the Director
2. All the members of the IQAC

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Indira Gandhi Institute of Technology
Sarang-759146

InternalQualityAssuranceCell

IGIT/IQAC/08

20.12.2021

Proceedings of the meeting of the Internal Quality Assurance Cell held on 20.12.2021 at 11.00 AM in the chamber of the principal, IGIT

The following members were present:

1. Prof (Dr)Satyabrata Mohanta, Director (Chairman IQAC)
2. Prof (Dr)Suresh Pattnaik, Member, IQAC, Professor, IGIT, Sarang
3. Prof (Dr) Bidyadhar Sahoo, Member, IQAC, Professor, IGIT, Sarang
4. Prof (Dr) Bibhu Prasad Panigrahi, Member, IQAC, Professor, IGIT, Sarang
5. (Dr) Urmila Bhanja, Convenor Member, Convenor, IQAC, Professor, IGIT Sarang
6. Mr. R. N Majhi, Registrar, Member IQAC, IGIT Sarang

Discussions are carried out on various aspects of quality enhancement and suggestions by the committee members are mentioned below.

1. Institute has signed MOU with few industries for students training and internship program.
2. To update knowledge students are advised to take NPTEL and SWAYAM courses. Credits are to be included in the revised curriculum.
3. Mentoring program was discussed with a clear vision to know the students better and to resolve the student related issues.
4. Project diary is made compulsory for each group of students to weekly monitor the students' progress in major project, which was also discussed.
5. It is decided to set up a Center of excellence in the institute in collaboration with BPUT for all the students for giving internship and training to the students during summer/autumn break.

6. NIRF rank for the year 2020 and 2021 was analyzed. It was found that the score was improved in 2021 compared to the previous year. Furthermore, the methods to improve the ranking quality parameters was also discussed (NIRF ranking analysis report is attached)
7. It was decided to upload the revised SAR for the NBA for five different UG courses as the previous NBA visit was cancelled due to the pandemic. Visit dates are fixed after consulting with the respective HoDs.

The meeting ended with thanks from the chair.

20/12/2021

Prof (Dr) Satyabrata Mohanta Director (Chairman IQAC)

20/12/2021

Prof (Dr) Suresh Pattnaik (Member IQAC)

20/12/2021

Prof (Dr) Bidyadhar Sahoo (Member IQAC)

20.12.2021

Prof (Dr) Bibhu Prasad Panigrahi (Member IQAC)

20-12-2021

Prof (Dr)Urmila Bhanja (Convenor Member IQAC)

20/12/2021

Mr. R. NMajhi (Registrar Member IQAC)

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NOTICE

IGIT/IQAC/09 Dated 22.04.2022

As advised by the Director, the internal IQAC meeting will be held on 25th of April 2022 at 11.00 AM in the Director's chamber. All the internal IQAC members are requested to attend the meeting.

Urmila Bhanja 22.04.2022

Prof Urmila Bhanja
Convenor IQAC

Copy:

1. PA to the Director for kind information of the Director
2. All the members of the IQAC

Indira Gandhi Institute of Technology
Sarang-759146

InternalQualityAssuranceCell

IGIT/IQAC/10

25.04.2022

Proceedings of the meeting of the Internal Quality Assurance Cell held on 25.04.2022 at 11.00 AM in the chamber of the principal, IGIT

The following members were present:

1. Prof (Dr) Satyabrata Mohanta, Director (Chairman IQAC)
2. Prof (Dr)Suresh Pattnaik, Member, IQAC, Professor, IGIT, Sarang
3. Prof (Dr) Bidyadhar Sahoo, Member, IQAC, Professor, IGIT, Sarang
4. Prof (Dr) Bibhu Prasad Panigrahi, Member, IQAC, Professor, IGIT, Sarang
5. Prof (Dr) Urmila Bhanja, Convenor, IQAC, Professor, IGIT Sarang
6. Mr. R. N Majhi, Registrar, Member IQAC, IGIT Sarang

Discussions are carried out on various aspects of quality enhancement and suggestions by the committee members are mentioned below.

1. A format to be prepared for the mentor to keep track of performance records of individual mentees. A monthly report (department wise) to be prepared and send to the IQAC regularly once in a month (last week of the month).
2. A format to be prepared for progress of lesson plans for each class and the reports of the plan should reach the IQAC regularly by the HoDs and HoOs twice in a semester (after each of the terminal examinations)
3. Annual reimbursement to be made for each of the faculty members to become members of the international professional bodies.
4. Faculties are encouraged to submit one journal paper/conference paper per year.
5. To support faculties and students publication the plagiarism software, elibrary facilities to be provided by the institute.

6. To provide seed money by the institute for interested faculties for a collaborative research funding at the national or international level.
7. Student's practical projects at rural level to be encouraged and supported.
8. To impart training to administrative and accounts supporting staff members with financial support.
9. IQAC invokes quality life of students and faculties for their mental health and facilities.
10. Visit dates for different departments are scheduled between 10th of May 2022 to 12th of May 2022.
11. A IQAC meeting is scheduled to held in hybrid mode on 13th of May 2022 (tentative) in presence of external members. Timing will be fixed after discussion.

The meeting ended with thanks from the chair.

25/04/2022

Prof (Dr) Satyabrata Mohanta Director (Chairman IQAC)

25/04/2022

Prof (Dr) Suresh Pattnaik (Member IQAC)

25/4/2022

Prof (Dr) Bidyadhar Sahoo (Member IQAC)

25.04.2022

Prof (Dr) Bibhu Prasad Panigrahi (Member IQAC)

Urmila Bhanja 25.04.2022

Prof (Dr)Urmila Bhanja (Convenor Member IQAC)

25/4/2022

Mr. R. NMajhi (Registrar Member IQAC)

Notice

IGIT/IQAC/11

IGIT/PA/142

Dated 05.05.2022

It is for information of all the HoDs and HoOs that the IQAC team will visit as per the dates mentioned below. Therefore, all the Heads of departments and Heads of offices and other faculty/staff members are requested to be present for the said visit. The visit to the different departments will start at 9.00 am onwards.

This may be treated as most urgent.

DIRECTOR 05/05/2022
IGIT Sarang

Date of visit: 10th of May 2022 (Mechanical Engg, Electronics & Communication Engg)

Date of visit: 11th of May 2022 (Electrical Engg, Metallurgical & Material Science Engg)

Date of visit: 12th of May 2022(Civil Engg, Chemical Engg)

Copy to:

1) PA to the Director for kind information of the Director

2) All Heads of Departments and Heads of Offices.

3) IQAC committee members

Indira Gandhi Institute of Technology
Sarang-759146

Internal Quality Assurance Cell

IGIT/IQAC/13 **10.05.2022**

Proceedings of the visit on 10.05.2022 to the Department of ETC and Mechanical Engg of the Internal Quality Assurance Cell. The following committee members visited the above departments and suggested few points regarding the departmental SAR files and other peripheral environment in the new academy building as mentioned below.

1. For the department of ETC budget allocation information to be provided from the accounts section/ self finance dealing assistant. (recurring and non recurring)
2. File nos 4, 6, 7 and (12 to 31) are in progress and the committee suggested to complete it quickly with all the relevant information.
3. For the department of Mechanical Engg budget allocation information to be provided from the accounts section. (recurring and non recurring)
4. Faculty student ratio (FSR) is to be improved in all the departments as per the NBA guidelines.
5. Lift is to be installed in the new academy building immediately preferably before 20th of May 2022.
6. Escalator is to be installed in the new academy building for the benefit of physically handicapped students/faculties and old aged faculties.

7. Bees to be removed from the new academy building.
8. Fire fighting system is to be installed in the new academy building as a safety measure.

1. Prof (Dr) Bidyadhar Sahoo, Member, IQAC, Professor, IGIT, Sarang
2. Prof (Dr) Bibhu Prasad Panigrahi, Member, IQAC, Professor, IGIT, Sarang
3. Prof (Dr) Urmila Bhanja, Convenor, IQAC, Professor, IGIT Sarang

CC:

1. Chairman, IQAC
2. Other IQAC committee members.

Indira Gandhi Institute of Technology
Sarang-759146

Internal Quality Assurance Cell

IGIT/IQAC/14 **11.05.2022**

Proceedings of the visit on 11.05.2022 to the Department of Electrical Engineering and Metallurgical & Material Science Engineering. of the Internal Quality Assurance Cell.

The following committee members visited the above departments and suggested few points regarding the departmental SAR files and few points regarding the room numbers and its locations in the new/old academy building as mentioned below.

1. For the department of Electrical Engineering and Metallurgical & Material Science Engineering budget allocation information is to be provided from the accounts section. (recurring and non recurring)
2. Committee suggested to prepare summary sheets for all the departmental SAR files and signed by the respective HoDs.
3. All the evidences are to be kept ready along with the files including placement, sports or any other students' activities as per the suggestions by the IQAC committee.
4. Committee decided that the best project validation is to be done by a departmental committee.
5. Departmental Board of studies members to be uploaded in the website.
6. For the department of Electrical Engineering File numbers 26 to 31 are in progress.
7. For the department of Metallurgical & Material Science Engineering summary sheet for each files to be maintained.

8. Result analysis for the students for each course and batch to be done.
9. Committee suggested to improve all the files for both the departments.
10. For the department of Metallurgical & Material Science Engineering File numbers 13—17, 20, 26, 28, 30 and 31 are in progress. Committee suggested to complete the files ASAP.

1. Prof (Dr) S C Pattnaik, Member, IQAC, Professor, IGIT, Sarang
2. Prof (Dr) Bidyadhar Sahoo, Member, IQAC, Professor, IGIT, Sarang
3. Prof (Dr) Bibhu Prasad Panigrahi, Member, IQAC, Professor, IGIT, Sarang
4. Prof (Dr) Urmila Bhanja, Convenor, IQAC, Professor, IGIT Sarang

11.5.2022

18.05.2022

CC:

1. Chairman, IQAC
2. Other IQAC committee members.

Indira Gandhi Institute of Technology
Sarang-759146

Internal Quality Assurance Cell

IGIT/IQAC/15 **12.05.2022**

Proceedings of the visit on 12.05.2022 to the Department of Chemical Engineering and Civil Engineering of the Internal Quality Assurance Cell.

The following committee members visited the above departments and suggested few points regarding the departmental SAR files as mentioned below.

1. Committee suggested to prepare summary sheets for all the departmental SAR files and signed by the respective HoDs.
2. All the evidences are to be kept ready along with the files including placement, sports or any other students' activities as per the suggestions by the IQAC committee.
3. Committee decided that the best project validation is to be done by a departmental committee.
4. Departmental Board of studies members to be uploaded in the website.
5. For the department of Chemical Engineering File numbers 12 to 16 are in progress.
6. For the department of Civil Engineering summary sheet for each files to be maintained.

(39)

7. Result analysis for the students for each course and batch to be done.
8. Committee suggested to improve all the files for both the departments.
9. Committee suggested completing the SAR files ASAP.

1. Prof (Dr) S C Pattnaik, Member, IQAC, Professor, IGIT, Sarang
2. Prof (Dr) Bidyadhar Sahoo, Member, IQAC, Professor, IGIT, Sarang
3. Prof (Dr) Bibhu Prasad Panigrahi, Member, IQAC, Professor, IGIT, Sarang
4. Prof (Dr) Urmila Bhanja, Convenor, IQAC, Professor, IGIT Sarang

12.05.2022

12.05.2022

CC:

1. Chairman, IQAC
2. Other IQAC committee members.

Urmila Bhanja <urmila@igitsarang.ac.in>

Request to join the IQAC meeting at IGIT Sarang on 13.05.2022 at 4PM

Urmila Bhanja <urmila@igitsarang.ac.in> Tue, May 10, 2022 at 12:45 AM
To: Sudeep Chand <skchand2001@yahoo.com>
Cc: Principal IGIT Sarang <principal@igitsarang.ac.in>

Dear Sir,

This is my pleasure and honor to invite you to our IQAC meeting to be held in hybrid mode on 13.05.2022 at 4 pm at IGIT Sarang.

PI kindly find the attached files.

Minutes of the previous meeting are enclosed herewith for your kind reference.
Waiting for your valuable suggestions to enhance the overall quality of the Institute.

I'll be sending the google meet link one hour prior to the meeting.

Honorarium for the meeting will be paid as per the Institute rule. PI. make it convenient to join the meeting.

Thanks & Regards,
Prof Urmila Bhanja
Convener IQAC

2 attachments

Prof. S . K. Chand.jpeg
220K

Minutes of the IQAC.pdf
1816K

Indira Gandhi Institute of Technology, Sarang-759146

Internal Quality Assurance Cell

IGIT/IQAC/16 13.05.2022

Proceedings of the meeting of the Internal Quality Assurance Cell held on 13.05.2022 at4.00 PM in the chamber of the Principal, IGIT

The following members were present:

1. Prof (Dr) Satyabrata Mohanta, Director (Chairman IQAC)
2. Prof (Dr) Sudeep Kumar Chand, Member Secretary, Professor, IGIT, Sarang
3. Prof (Dr) Mihir Kumar Sarangi, Associate Professor, Mechanical Engineering Department, IIT,Kharagpur, Expert Committee Member
4. Dr. Abhina Chandra Biswal, Race2cloud Technology, Bengaluru, Expert Committee Member
5. Prof (Dr)Suresh Pattnaik, Member, IQAC, Professor, IGIT, Sarang
6. Prof (Dr) Bidyadhar Sahoo, Member, IQAC, Professor, IGIT, Sarang
7. Prof (Dr) Bibhu Prasad Panigrahi, Member, IQAC, Professor, IGIT, Sarang
8. Prof (Dr) Urmila Bhanja, Convenor, IQAC, Professor, IGIT Sarang
9. Mr. R. N Majhi, Registrar, Member IQAC, IGIT Sarang

Discussions are carried out on various aspects of quality enhancement and suggestions by the committee members are mentioned below.

1. The committee reviewed the Annual Personal Assessment Report (APAR) andapproved after slight modifications.
2. Annual quality Assurance report (AQAR) for the year 2020-2021 is revised and approved.
3. Members suggested to improve research by giving incentives to faculty members.
4. Members also suggested that the faculty members of IGIT should create their own"ORCID ID".
5. Committee suggested to improve perception through interactions with alumni, and industries. (Through interaction programmes, invited talks etc.)

6. The committee discussed the progress of establishment of center of excellence. The committee suggested to name the center of excellence. Additionally, the committee also suggested that there should be a center of excellence owned by IGIT to impart training to the students on various recent topics (AI, Embedded System etc.).
7. Members suggested to apply for the accreditation (NBA) of the remaining departments (Master's in Computer Science & Engg. and Production Engineering).
8. Members also suggested to apply for the accreditation (NBA) of all the Post-Graduate programs.

The meeting ended with thanks from the Chair.

13/05/2022

Prof (Dr) Satyabrata Mohanta, Chairman, IQAC

Prof Sudeep Kumar Chand, Member Secretary, IQAC

Prof Mihir Kumar Sarangi, Expert Member, IQAC

Dr. Abhina Chandra Biswal, Expert Member, IQAC

Prof (Dr) Suresh Pattnaik, Member, IQAC

Prof (Dr) Bidyadhar Sahoo, Member, IQAC

13.05.2022

Prof (Dr) Bibhu Prasad Panigrahi, Member, IQAC

13.05.2022

Prof (Dr)Urmila Bhanja, Convenor Member, IQAC

13/5/2022

Mr. R. NMajhi, Member, IQAC

Registration No.										

	INDIRA GANDHI INSTITUTE OF TECHNOLOGY, SARANG **4th Semester Regular/ Back Paper Examination AY 2023-24**	**Total no. of Pages: 02**

Branch		**Programme**	**B. Tech**
Subject Name		**Semester**	
Subject Code		**Year**	**2023-24**
Time: 03 Hrs	**Answer Question number 1 which is compulsory and any five from the rest.**	**MaximumMarks**	**60**

Each Question Carry Marks(M) as Indicated in the right-hand Margin

Q's	Questions	M	BL	CO	PO
1.a		01			
b		01			
c		01			
d		01			
e		01			
f		01			
g		01			
h		01			
i	.	01			
j		01			
2. a		05			
b		05			
3.a		05			
b	.	05			
4.a		05			
b		05			
5.a		05			
b		05			
6.a		05			
b		05			
7.a		05			
b		05			
	Short notes type Questions Only (Answer any Two)				
8.a		05			
b		05			
c		05			
d		05			

Bloom's Taxonomy Level (BL)	**L1: Remembering**	**L3: Applying**	**L5: Evaluating**
	L2: Understanding	**L4: Analysing**	**L6: Creating**

INDIRA GANDHI INSTITUTE OF TECHNOLOGY, SARANG

Annual Report
2020-21

Indira Gandhi Institute of Technology
Sarang, Dhenkanal, Odisha, 759146
(An Autonomous Institute, Approved by AICTE, New Delhi, Affiliated to Biju Patnaik University of Technology, Odisha)
www.igitsarang.ac.in

ନିର୍ଦ୍ଦେଶକଙ୍କ ବାର୍ତ୍ତା

ଡ. ସତ୍ୟବ୍ରତ ମହାନ୍ତ

ମୁଁ ଆପଣଙ୍କୁ ଇନ୍ଦିରା ଗାନ୍ଧୀ ବୈଷୟିକ ଅନୁଷ୍ଠାନ, ସରାଙ୍ଗ କୁ ସ୍ୱାଗତ କରୁଛି । ଏହି ସୌଭାଗ୍ୟ ମୋ ପାଇଁ ଏକ ଅନନ୍ୟ ସମ୍ମାନ । ଆମ ଶିକ୍ଷାନୁଷ୍ଠାନ, ଚିରସ୍ରୋତା ବ୍ରାହ୍ମଣୀ ନଦୀ କୂଳରେ ସବୁଜ ବନାନୀ ଘେରା ପ୍ରାକୃତିକ ପରିବେଶରେ ଅବସ୍ଥିତ । ତାଳଚେର-ଅନୁଗୁଳ ଶିଳ୍ପ ବଳୟର କେନ୍ଦ୍ରସ୍ଥଳରେ ଅବସ୍ଥିତି, ଆମକୁ ଶୈକ୍ଷିକ ଏବଂ ଯାନ୍ତ୍ରିକ ଉତ୍କର୍ଷତା ହାସଲ ଦିଗରେ ଅନୁକୂଳ ପରିବେଶ ପ୍ରଦାନ କରେ ।

ବିଗତ କିଛି ଦଶନ୍ଧି ମଧ୍ୟରେ ଆମ ଅନୁଷ୍ଠାନ ଗବେଷଣା ଓ ଇଂଜିନିୟରିଂ ଶିକ୍ଷା କ୍ଷେତ୍ରରେ ନିଜସ୍ୱ ସ୍ୱତନ୍ତ୍ର ପରିଚୟ ସୃଷ୍ଟି କରିପାରିଛି । ବିଭିନ୍ନ ପାଠ୍ୟକ୍ରମରେ ବର୍ଷ ପରେ ବର୍ଷ ମେଧାବୀ ଛାତ୍ର ଛାତ୍ରୀଙ୍କର ଯୋଗଦାନ ଏବଂ ସୁଯୋଗ୍ୟ ଅଧ୍ୟାପକ ମଣ୍ଡଳୀ ଆମ ଅନୁଷ୍ଠାନର ସାମର୍ଥ୍ୟ ଓ ଶକ୍ତିର ଉତ୍ସ । ଶୈକ୍ଷିକ ଉତ୍କର୍ଷତାର ସୃଜନ ଓ ପାଳନ ପାଇଁ ଆମେ ଅତ୍ୟାଧୁନିକ ବୈଜ୍ଞାନିକ ଗବେଷଣାରେ ମନୋନିବେଶ କରିଛୁ । ଦେଶର ବିଭିନ୍ନ ଶିଳ୍ପ ସଂସ୍ଥା ସହ ଆମର ନିରବଚ୍ଛିନ୍ନ ସମ୍ପର୍କ ଆମକୁ ଶିକ୍ଷା କ୍ଷେତ୍ରରେ ସମୟୋପଯୋଗୀ ପରିବର୍ତ୍ତନ ନିମନ୍ତେ ନୂଆ ଅଭିଜ୍ଞତା ପ୍ରଦାନ କରି ଆସୁଅଛି । ଆମକୁ ଦେଶର ଅନ୍ୟ ପ୍ରମୁଖ ଶିକ୍ଷାନୁଷ୍ଠାନ ମାନଙ୍କ ସହ ସମକକ୍ଷ ହେବା ପାଇଁ ଆମର ଗବେଷଣା ଓ ଶିକ୍ଷାର ମାନଦଣ୍ଡ କୁ ଆହୁରି ଉଚ୍ଚସ୍ତର କୁ ନେବାକୁ ପଡିବ । ଏହି ଲକ୍ଷ୍ୟ ହାସଲ ନିମିତ୍ତ କଠିନ ପରିଶ୍ରମର ଆବଶ୍ୟକତା ରହିଛି । ବ୍ୟକ୍ତିଗତ ସ୍ତରରେ ଅନୁଷ୍ଠାନ ନିମନ୍ତେ ଉତ୍ସର୍ଗୀକୃତ ମନୋଭାବ ଏବଂ ସାମୂହିକ କାର୍ଯ୍ୟ ସାଧନ ନିମନ୍ତେ ଏକତ୍ୱବୋଧ ସହ ଯୋଗଦାନ ଆମକୁ ଉତ୍କର୍ଷତାର ଆଉ କିଛି ସୋପାନ ଆରୋହଣ କରିବାରେ ନିଶ୍ଚୟ ସହାୟକ ହେବ ।

ଶିକ୍ଷାନୁଷ୍ଠାନ କହିଲେ କେବଳ ବିଶାଳ ସୌଧମାଳା, ଶ୍ରେଣୀଗୃହ ସବୁ, ତା'ର ଅଧ୍ୟାପକ ମଣ୍ଡଳୀ ଓ ଛାତ୍ରଛାତ୍ରୀମାନଙ୍କୁ ବୁଝାଏ ନାହିଁ । ଏସବୁ ଦୃଶ୍ୟମାନ ବିଭବ ବାହାରେ ଶିକ୍ଷାନୁଷ୍ଠାନର ଜୀବନ ସହ ଅବିଚ୍ଛେଦ୍ୟ ଭାବରେ ଯୋଡି ହୋଇଥାଏ, ପ୍ରତିଷ୍ଠା ସମୟରୁ ଏଯାବତ ଅନେକ ବଦାନ୍ୟ ବ୍ୟକ୍ତି ବିଶେଷ ଓ କର୍ତ୍ତବ୍ୟନିଷ୍ଠ ଅଧ୍ୟାପକ ମାନଙ୍କର ତ୍ୟାଗ ଓ ଦୀକ୍ଷିତ ପୁରାତନ ଛାତ୍ର ଛାତ୍ରୀ ଙ୍କର ଭଲପାଇବା । ସମୟ ପଥରେ ଚାରି ଦଶନ୍ଧିରୁ ଦୀର୍ଘ ସମୟ ଧରି ଯାତ୍ରା ଜାରି ରଖିଛି ଆମ ଅନୁଷ୍ଠାନ । ଇତି ମଧ୍ୟରେ ଦିନେ ଆମ ଅନୁଷ୍ଠାନରୁ ବୃତ୍ତିଗତ ପରିଚୟ ଲାଭ କରିଥିବା ଅନେକ ଛାତ୍ରଛାତ୍ରୀ ବିବିଧ କ୍ଷେତ୍ରରେ ପ୍ରଶଂସନୀୟ ସଫଳତା ଲାଭ କରି ଜାତୀୟ ସ୍ତରରେ ଓ ବିଶ୍ୱ ଦରବାରରେ ଆମ ଅନୁଷ୍ଠାନ ପାଇଁ ନୂଆ ନୂଆ ଗାରିମାମୟ ପରିଚୟ ଆଣି ଦେଇଛନ୍ତି । ଏସବୁ ଆମ ଅନୁଷ୍ଠାନ ସହ ଜଡିତ ସମସ୍ତଙ୍କ ପାଇଁ ଗୌରବ ର ବିଷୟ । ଜଣେ ବ୍ୟକ୍ତିର ଅନୁଷ୍ଠାନ ସହ ସମ୍ପର୍କର ଅବଧି ମଣିଷ ଜୀବନକାଳର ସ୍ୱଚ୍ଛତା ହେତୁ ସୀମିତ । କିନ୍ତୁ, ଶିକ୍ଷାନୁଷ୍ଠାନ ଟିଏ ବଞ୍ଚିରହେ ଓ କ୍ରମବର୍ଦ୍ଧିଷ୍ଣୁ ଉତ୍ସାହରେ ଜ୍ଞାନ ର ସୌରଭ ବିତରଣ କରି ଚାଲିଥାଏ ଶହ ଶହ ବର୍ଷ ପର୍ଯ୍ୟନ୍ତ ।

ମୁଁ ଆଶା କରେ ଉଚ୍ଚମାନର ଭିତ୍ତିଭୂମି, ପ୍ରବୀଣ ଅଧ୍ୟାପକ, ଅଧ୍ୟାପିକା, ଓ ଅନୁଷ୍ଠାନର ସମସ୍ତ କର୍ମଚାରୀ ମାନଙ୍କ ବଳିଷ୍ଠ ସହଯୋଗ ଓ ପ୍ରତିଭାଦୀପ୍ତ ଛାତ୍ରଛାତ୍ରୀ ଙ୍କ ଅଧ୍ୟବସାୟକୁ ସମ୍ବଳ କରି ଆମେ ପରିବର୍ତ୍ତିତ ସମୟରେ ଦେଶର ବୌଦ୍ଧିକ ଏବଂ କାର୍ମିକ ଉନ୍ନତି ସ୍ରୋତରେ ଆମ ଅନୁଷ୍ଠାନର ଅମୂଲ୍ୟ ଯୋଗଦାନର ଧାରା ଅବ୍ୟାହତ ରଖି ପାରିବୁ ।

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Vision

To be an academic institution of excellence striving continuously for advancement of technical education and research in service to society.

Mission

To produce well trained technical graduates with innovative thinking, knowledge and skills to meet the requirement of the changing society.

To foster promote and sustain scientific research in emerging fields of technology with a futuristic outlook.

To establish interactive linkages with leading technological institutions, research centres and industries.

To provide service to the community through continuing education and technology transfer.

To instill in each member of IGIT community the spirit of passion and dedication to work creatively and effectively for betterment of humankind.

1. Members of Governing Body

Sl. No.	Name	Designation
1	Prof. Damodar Acharya Ex-Director, IIT Kharagpur,Ex-Chairman, AICTE and Founding Vice Chancellor, BPUT	Chairman
2	Prof. Barada Kanta Mishra Director, IIT Goa	Member (Educationist)
3	Dr. Binaya Kumar Das Director, ITR, DRDO, Chandipur	Member (Industrialist)
4	Prof. Suresh Chandra Patnaik Professor & Head, Department of Metallurgical and Materials Engineering, IGIT, Sarang	Member (Nominated by the Principal on seniority by rotation)
5	Prof. Bibhu Prasad Panigrahi Professor , Department of Electrical Engineering, IGIT, Sarang	Member (Nominated by the Principal on seniority by rotation)
6	Prof. Gopendra Kishore Roy Ex-Director and Professor, Chemical Engineering, NIT Rourkela	Member (Nominated by the Principal for a period of two years)
7	Prof. Sujit Kumar Biswas CAS Dept. of Electrical Engineering, Jadavpur University, Kolkata	Member (UGC Nominee)
8	Secretary, SD & TE Department or his representative, not below the rank of Joint Secretary	Member (State Govt. Nominee Member)
9	Prof. Chita RanjanTripathy The Vice Chancellor, BPUT, Rourkela	Member (Nominated by the University)
10	Prof. Satyabrata Mohanta Director, I.G.I.T, Sarang	Member Secretary

2. Members of Academic Council

Sl. No.	Member	Position
1	Prof. Satyabrata Mohanta	Director
2	Prof. Suresh Chandra Pattnaik	Dean (Academic)
3	Prof. Bibhu Prasad Panigrahi	Dean (FARC)
4	Prof. TusharKumar Nath	HOD, Civil Engg.
5	Prof. Pranati Das	HOD, Electrical Engg.
6	Prof. Bidya Dhar Sahoo	HOD, Mechanical Engg.
7	Prof. Umila Bhanja	HOD, ETC Engg.
8	Prof. Sasmita Mishra	HOD, CSEA
9	Prof. Chitta Ranjan Sahoo	HOD, Architecture
10	Prof. Sunil Kumar Tripathy	HOD, Physics
11	Dr. Binod Bihari Panda	HOD, Chemistry
12	Prof. Pitambar Das	HOD, Mathematics
13	Prof. Bibhuti Bhusan Choudhury	HOD, Production Engg.

3. Programs Offered

Undergraduate Programs (B. Tech)	
Programs	***Sanctioned Strength***
Electrical Engineering	120
Civil Engineering	120
Mechanical engineering	120
Chemical Engineering	60
Metallurgical and Materials Engineering	60
Electronics & Telecom. Engineering	60
Computer Science Engineering and Applications	60
Production Engineering	60

Post Graduate Programs (M.Tech, MSc. & MCA)	
Programs (M.Tech)	***Sanctioned Strength***
Energy System Engineering	18
Power System Engineering	18
Energy Conservation and Management	18
Power Electronics and Drives	18
Structural Engineering	18
Production Engineering	18
Geotechnical Engineering	18
Mechanical System Design	18
Thermal Engineering	18
Transportation Engineering	18
Industrial Metallurgy	18
Metallurgical & Materials Engineering	18
Chemical Engineering	18

Electronics and Telecommunication Engineering	18
Wireless Communication Technology	18
Computer Science & Information Security	18
Computer Science Engineering	18
Programs (M.Tech, Part Time.)	***Sanctioned Strength***
Environmental Science & Engineering (Civil)	18
Industrial Power Control and Drives (Electrical)	18
Programs (M.Sc.)	***Sanctioned Strength***
Applied Physics	18
Applied Chemistry	18
Applied Mathematics	18
Programs (M.C.A.)	***Sanctioned Strength***
Master in Computer Application	60

Ph.D Programs
Electrical Engineering
Civil Engineering
Mechanical engineering
Chemical Engineering
Metallurgical and Materials Engineering
Electronics & Telecom. Engineering
Computer Science Engineering and Applications

Diploma Programs	
Programs	***Sanctioned Strength***
Electrical Engineering	60
Civil Engineering	60
Mechanical engineering	60
Metallurgical and Materials Engineering	30

Electronics & Telecom. Engineering	25

4. Affiliation and Approval

- All B. Tech, B.Arch, MCA, MSc. Ph. D & M. Tech Courses to Biju Patnaik University of Technology (BPUT), Rourkela, Odisha and approved by AICTE, New Delhi.
- All Diploma Courses to State Council for Technical Education & Vocational Training, (SCTE &VT) Odisha, Bhubaneswar.

5. Department Information

A. Department of Mechanical Engineering

Mission: To imparting highest quality education to the students to build their capacity and enhancing their skills to make them successfully survive in this era of Industrialization in mechanical engineers. To provide quality and value-based education in the field of engineering this leads to employability, higher education and entrepreneurship. To develop alliances with educational institutions, industry, R&D organizations and alumni for excellence in research and consultancy practices.

Vision: To contribute to the society through excellence in imparting technical education and research programmes at the cutting edge of technology to meet the current and future challenges of technological development.

Courses Offered

- B. Tech in Mechanical Engineering
- M. Tech in Mechanical System Design
- M. Tech in Production Engineering
- M. Tech in Thermal Engineering
- Ph.D. in Mechanical Engineering
- Diploma in Mechanical Engineering

Infrastructure

Departmental laboratories, seminar room, classrooms, meeting room, research laboratory, faculty rooms and department office are the most important aspect of department infrastructure. Interactive LED display boards are used in the classrooms to make teaching and learning interesting. Faculty rooms, CAD and seminar hall are equipped with WIFI and Ethernet

connection to support onlineteaching. Department owns few licenses for softwares such as Ansys, Catia, MATLAB, LABVIEW, for conducting classes and research work. Softwares like PYTHON are also used by the students for laboratory experiments, which are available on open source platform.

Laboratories

The department is furnished with well-equipped laboratories and workshops for the under graduate and post graduate students to enhance the practical knowledge and validate the theorems. The departmental laboratories are listed below.

- Thermal Laboratory
- Refrigeration and Air Conditioning Laboratory
- Machine Dynamics Laboratory
- Material Testing Laboratory
- Fluid Mechanics and Hydraulic Machinery Laboratory
- CAD Center
- Workshop

Faculty Information

Sl.No.	Name	Highest Qualification	Designation	Research Area
1	Prof. (Dr.) B.D. Sahoo	Ph.D	Professor & HOD	Production Engg.,Metal Forming, Machining, Diamond Coated Tools
2	Prof. (Dr.) S.K.Senapati	Ph.D	Professor	Applied Mechanics & Bio-Medical
3	Prof. (Dr.) R.K.Swain	Ph.D	Professor	Energy Studies, Alternative Fuels for I.C.Engines
4	Prof.(Dr.) B.B.Choudhury	Ph.D	Professor	Production Engg., CAD/CAM, FMS, Robotics
5	Dr. D.K.Behera	Ph.D	Associate Professor	Production Engg. & Industrial Engg. & Management, Powder Metallurgy, AI
6	Mr.P.R.Dhal	M.Tech.	Assistant Professor	Production Engineering

7	Dr. (Mrs.) J.Nayak	Ph.D	Assistant Professor	Thermal Engineering
8	Mrs. S. Sahu	M.Tech	Assistant Professor	Production Engineering
9	Mrs. B.Singh	M.Tech	Assistant Professor	Thermal Engineering
10	Dr. R.N.Sethi	Ph.D	Assistant Professor	Mechanical System Design
11	Mr. M.K.Muni	M.Tech	Assistant Professor	Machine Design & Analysis
12	Mr.S.Majhi	M.Tech	Assistant Professor	Machine Design & Analysis
13	Mrs. J.Randhari	M.Tech	Assistant Professor	Machine Design
14	Mrs. K.S.S.Sahoo	M.Tech	Assistant Professor	Heat Power Engineering
15	Dr. A.Padhi	Ph.D	Assistant Professor	Machine Design & Analysis
16	Mr. R.K.Patel	M.Tech	Assistant Professor	Machine Design
17	Mr. G.K.Ghosh	M.Tech	Assistant Professor	Engineering Tribology
18	Dr. A.Gupta	Ph.D	Assistant Professor	Thermal Engineering
19	Mr. S.R.Pradhan	M.Tech	Assistant Professor	Thermal Engineering
20	Mrs. S. Panda	M.Tech	Asst. Prof. (CONTR.)	Thermal Engineering
21	Dr. S. K. Panda	PhD	Asst. Prof. (CONTR.)	Production Engineering
22	Mr. M. M. Saran	M.Tech	Asst. Prof. (CONTR.)	Production Engineering
23	Mrs. I. Dhar	M.Tech	Asst. Prof. (CONTR.)	Design Engineering
24	Mr.P. L. Nayak	M.Tech	Asst. Prof. (CONTR.)	Thermal Engineering
25	Mr. D.K.Nayak	M.Tech	Asst. Prof. (CONTR.)	Design Engineering
26	Mr. S.Aich	M.Tech	Asst. Prof. (CONTR.)	Thermal Engineering
27	Mr. R. Mohanty	M.Tech	Asst. Prof. (CONTR.)	Machining, CAD/CAM & Tool Engineering
28	Mr. S.K.Das	M.Tech	Asst. Prof. (CONTR.)	CAD

29	Mr. S.B. Panda	M.Tech	Asst. Prof. (CONTR.)	Production Engineering
30	Mr. B.P.Panda	M.Tech	Asst. Prof. (CONTR.)	Mechanical System Design
31	Mr. A.Kar	M.Tech	Asst. Prof. (CONTR.)	Production Engineering

Student Projects

Sl. No.	Project Title (B.Tech)
1	Formability & Machinability of Aluminium And Sillicon Alloys
2	Solar Powered Water Purification System
3	Design & Development of Robotic Acr
4	Survey on Green Supply Chain Management System
5	Reliability of Transportation In Steel Industries Using Optimization Method
6	Simulation and Stress Analysis of Leaf Spring
7	Design & Fabrication of Pedal Operated Multipurpose Machine
9	Parametric Analysis of solar-powered refrigerator
10	Emission Control of C.I Engine using Nano particles blended biodiesel and EGR
11	Simulation of Tesla Roadster regenerative Braking in the near future dominated by electric vehicle
12	Design and Analysis of Universal coupling Joint
13	3D modeling and analysis of IC Engine parts
14	Stress analysis of High-Pressure Hydraulic Accumulator
15	Analysis of Carbon Steel in dry Turning process for product sustainability using Taguchi Technique
16	Prediction of Performance and operation parameters of a diesel engine by ANN
17	A conceptual Design and Comparative analysis for improvement in comfort of Bike helmet.

Sl. No.	Project Title (M.Tech)
1	Diamond CNT Based Composites for Thermal Carrier Plates

2	On Study of The Mechanical Properties and Machinability of Al-Mg Alloys & Composite With Varying Mg Content
3	Evaluation Of Different Material Selection Problems By Implementing Entropy Embedded EDAS And Codas MCDM System
4	Integrating the concept of multi criteria decision making in solving different types of selection problems related to the industry
5	Artificial intelligence technique for improving the navigational parameters during robot path finding
6	Experimental investigation and optimization of FDM process using PLA.
7	Fault Detection of Ball Bearing Using Vibration Analysis
8	Performance analysis of box type solar cooker with the use of phase change material
9	Performance of Combustion and Emission Characterization of Single Cylinder Four Stroke VCR Engine Using Karanja Oil Derived Bio-Diesel Fuel
10	Design & Analysis of Gas Turbine Blade
11	Design, Construction of a Solar Dryer
12	Graphene nano additives for energy efficiency in gear oil (SAE EP - 90)
13	Investigation on Effect of Castor Biodiesel Blend on Performance & Emission of a Single Cylinder 4stroke VCR Diesel Engine

Student's Corner

Placement

Sl. No	**Name**	**Pass-out Year**	**Name of the organization with address**	**Designation**
1	Pratik Behera	2021	Wipro Ltd. , BBSR	Associate Consultant
2	Hitesh Gupta	2021	ArcelorMittal Nippon Steel India	Engineer
3	Aditya Kumar Sahoo	2021	Inaho digital solutions, Bhubaneswar	Software Engineer trainee
4	Chandrasekhar Mahapatra	2021	Tata Consultancy Services	Assistant System Engineer
5	Siddhartha Sahoo	2021	Infosys Limited	System Engineer

6	Akanksha Behera	2021	IBM India Pvt Ltd,	Associate Consultant
7	Amitesh Pattanaik	2021	TATA STEEL BSL	Management Engineer Trainee
8	Saswati Panda	2021	Cognizant Technology	Programmer Analyst Trainee
9	Nihar Ranjan Sahoo	2021	HCL Technology	Analyst
10	ITISHREE BHOI	2021	Infosys Ltd. , Pune SEZ Phase II	Associate Business Analyst
11	SWADHIN SWAROOP	2021	COGNIZANT, BANGALORE	PROGRAMMER ANALYST TRAINEE
12	ARCHITA MOHAPATRA	2021	TCS, Bangalore	Associate system engineer trainee
13	AMAR KUMAR MAJHI	2021	Capgemini India, EPIP, Urban, Banglore	Senior Analyst
14	Kalandi charan raut	2021	igit sarang	B-tech Mechanical
15	Pratyush Ranjan Bal	2021	Accenture bangalore	Associate Software Engineer
16	ALEX NAYAK	2021	Tata steel bs ltd, meramandali, dhenkanal	MET
17	Satya Swarup Behura	2020	Accenture	ASE
18	DEBASISH PANDA	2020	Aarti steels limited, Ghantikhal, Cuttack	GET
19	Lipysmita Patel	2020	HCL technologies, chennai	Software Engineer
20	Mangal Kishan Mohanty	2020	TCSL, Bhubaneswar	Asst. System Engineer Trainee
21	SUVANKA ROUT	2020	Infosys, Bangalore	System engineer
22	Kunal Patnaik	2020	Aarti steels Ltd , Cuttack	Engineer
23	Bishwabhushan Panda	2020	Accenture	ASE
24	Santosh Das	2020	Tata Steel Kalinganagar, Odisha.	Junior engineer
25	Smrutirekha Sahoo	2020	Cognizant	Programmer analyst trainee
26	Chandan Behera	2020	TATA STEEL , KALINGA NAGAR	Junior engineer
27	Subhakanta Swain	2020	Indiamart, Noida sector-135	Senior executive
28	Manjit Biswal	2020	BYJUS, BBSR	BDA

Higher Studies

Sl. No.	Name	Pass-out Year	Name of Institute for Higher Studies
1	K SAI SANTOSH	2021	Indian institute of technology Bhubaneswar
2	Susanta Bagar	2021	CTTC, Bhubaneswar
3	Avishek Parida	2021	IIM Indore, Rau, Pithampur, Madhya Pradesh
4	Arya sidhant prusty	2021	College of engineering and technology, Ghatikia, Bhubaneswar
5	Bed prakash pradhan	2021	College of engineering and technology, bhubaneswar, ghatikia
6	Sumit Acharya	2021	XIMB
7	Lekhani Ranjan Mahanta	2021	CET BHUBANESWAR
8	Avinash Swain	2020	Xavier Institute of Management, Xavier Square, Jayadev Vihar, Bhubaneswar, Odisha 751013
9	Asyukta Panda	2020	XIMB
10	DINESH KUMAR SAHOO	2020	CET BBSR
11	Satyaprakash Mahalik	2019	IIT, INDORE
12	LIPSA RANI SAHU	2019	Veer Surendra Sai University of Technology, Burla, Sambalpur, PIN - 768018
13	Jyotiranjan Pradhan	2019	Igit sarang
14	Subhasis Sahoo	2019	National Institute of Technology Tiruchirappalli, Tamil Nadu
15	SWASTIK SHRUTIMAN MOHANTY	2019	MDC on SHE

STTPs/FDPs/Conferences Organized

Sl.No.	Title	Funding Agencies	Co-ordinators	Date
1.	TEQIP-III Sponsored Faculty Development Program conducted as certified faculty trainers from IIT Indore on "Artificial Intelligence & Machine Learning, ,Department of Mechanical Engineering, I.G.I.T, SARANG-759 146,Dhenkanal, Odisha, India.	TEQIP-III	Dr. Rabinarayan Sethi	12th Jan 2021 – 25th March 2021,
2.	Faculty Development Programme on "Concepts & Applications of Composite Materials (CACM-2021)" (2020-21)	TEQIP-III	Dr. A.Padhi/ Mr. G.K.Ghosh	Dec,2021
3.	Short term course on "Recent Trends in Mechanical Engineering (RTME-2021)" (2020-21)	TEQIP-III	Dr. D.K.Behera/ Mr. G.K.Ghosh/ Mr. S.R. Pradhan	Dec,2021
4.	"Vibration Analysis & Condition Monitoring for Rotating Machines, (VACMRM-2020), ,Department of Mechanical Engineering, I.G.I.T, SARANG-759 146,Dhenkanal, Odisha, India.	TEQIP-III	Dr. Rabinarayan Sethi/ Mr. R.K.Patel	05th – 09th October 2020,

5.	Two days intensive workshop conducted as Co- Coordinator on “Ignite Your Mind Towards Innovation, Boot Camp For Start-Up Activities ”,organised by State Project Implementation Unit, Odisha & KIIT - Technology Business Incubator, Bhubaneswar at I.G.I.T, SARANG-759 146, Dhenkanal, Odisha, India.	TEQIP-III (Start-up Cell)	1.Prof. P. Das (Ele, Engg.). 2. Dr. Rabinarayan Sethi,(Mech.) 3.Mr. Kodanda Dhar Sa (ETC, Engg.)	28 –29 February 2020

ଆଇଜିଆଇଟି ଯାନ୍ତ୍ରିକ ବିଭାଗ ପକ୍ଷରୁ ରାଷ୍ଟ୍ରୀୟ ସମ୍ମିଳନୀ

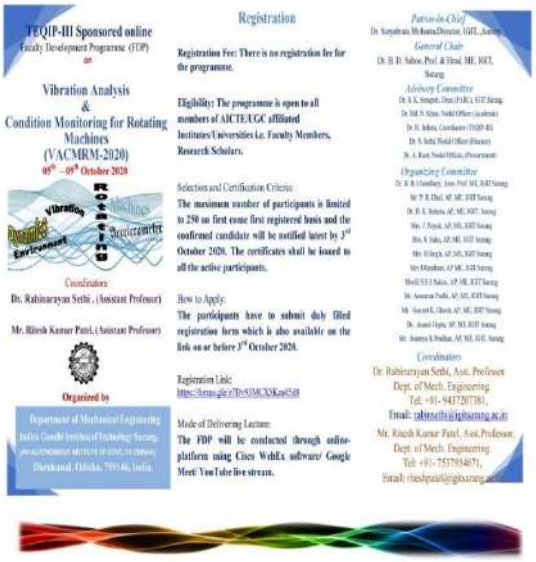
ପରଜଙ୍ଗ,୩ା୦ା୩(ଆପ୍): ପରଜଙ୍ଗ ଢ଼ୁଲ୍ ସରାଙ୍ଗ ସ୍ଥିତ ଇଣ୍ଡିଆ ଗାନ୍ଧୀ ଟେଷ୍ଟୟିଜ ଶିକ୍ଷାନୁଷ୍ଠାନ(ଆଇଜିଆଇଟି)ର ଯାନ୍ତ୍ରିକ ବିଭାଗ ପକ୍ଷରୁ ଢ଼ୁଇ ଦିନିଆ ରାଷ୍ଟ୍ରୀୟ ସମ୍ମିଳନୀ ଭର୍ଚ୍ୟୁଆଲ୍ ମୋଡ୍‌ରେ ଅନୁଷ୍ଠିତ ହୋଇଯାଇଛି । ଇଞ୍ଜିନିୟରିଂ, ବିଜ୍ଞାନ, ପ୍ରଯୁକ୍ତିବିଦ୍ୟା ଏବଂ ଏହାର ପରିଚାଳନା ସମ୍ପର୍କରେ ଅନୁଷ୍ଠିତ ସମ୍ମିଳନୀକୁ ଶିକ୍ଷାନୁଷ୍ଠାନର ନିର୍ଦ୍ଦେଶକ ସତ୍ୟବ୍ରତ ମହନ୍ତ ଉଦ୍‌ଘାଟନ କରିଥିଲେ । ଯାନ୍ତ୍ରିକ ବିଭାଗର ମୁଖ୍ୟ ଡ. ଟିତି ସାହୁ, କରିଷ୍ଠ ପ୍ରାଧ୍ୟାପକ ତଥା ସଂଗଠକ ସଚିବ ତଥା ମୁଖ୍ୟ ସଂଯୋଜକ ଡ. ଧ୍ରୁବେନ କୁମାର ଦେହେରା, ସହ-ସଂଯୋଜକ ଡ. ଆନନ୍ଦ ଗୁପ୍ତା, ସୁପ୍ରିୟା ସାହୁ ପ୍ରମୁଖ ଉପସ୍ଥିତ ଥିଲେ । କାର୍ଯ୍ୟକ୍ରମରେ ଆଇଆଇଟି ଗୌହାଟିର ଯାନ୍ତ୍ରିକ ବିଭାଗର ଡ. ଉଦୟ କୁମାର ଦିଲ୍ଲିତ, ଏନ୍‌ଆଇଟି ରାଉରକେଲା ଯାନ୍ତ୍ରିକ ବିଭାଗର ଡ. ସରାଜ କୁମାର ପଟେଲ, ଏନ୍‌ଆଇଟି ରାଉରକେଲାର ପୂର୍ବତନ ନିର୍ଦ୍ଦେଶକ ସୁନୀଲ ଷଡ଼ଙ୍ଗୀ ମୁଖ୍ୟ ବକ୍ତା ଭାବେ ଯୋଗଦେଇଥିଲେ । ଏହି ସମ୍ମିଳନୀରେ ଦେଶର ବିଭିନ୍ନ ପ୍ରାନ୍ତର ପ୍ରାଧ୍ୟାପକ, ପ୍ରାଧ୍ୟାପିକା, ଅଧ୍ୟାପକ, ଅଧ୍ୟାପିକାମାନେ ଯୋଗ ଦେଇଥିଲେ । ଅଂଶଗ୍ରହଣକାରୀଙ୍କୁ ଅନୁଷ୍ଠାନ ପକ୍ଷରୁ ଅନ୍‌ଲାଇନ୍ ମାଧ୍ୟମରେ ମାନପତ୍ର ପ୍ରଦାନ କରାଯାଇଥିଲା ।

National conference on Engineering Science technology and Management Department of Mechanical Engineering

ଆଇଜିଆଇଟି ଯାନ୍ତ୍ରିକ ବିଭାଗ ତରଫରୁ ସ୍ୱତନ୍ତ୍ର ପ୍ରଶିକ୍ଷଣ ଶିବିର

ପରଜଙ୍ଗ,୧୪।୨(ଆପ୍): ପରଜଙ୍ଗ ଢ଼ୁଲ୍ ସରାଙ୍ଗ ସ୍ଥିତ ଇଣ୍ଡିଆ ଗାନ୍ଧୀ ଟେଷ୍ଟୟିଜ ଶିକ୍ଷାନୁଷ୍ଠାନ(ଆଇଜିଆଇଟି)ର ଯାନ୍ତ୍ରିକ ବିଭାଗ ପକ୍ଷରୁ ମେକାନିକାଲ୍ ଇଞ୍ଜିନିୟରିଂ ସାମ୍ପ୍ରତିକ ଧାରା ସମ୍ପର୍କିତ ଏକ ସ୍ୱତନ୍ତ୍ର ପ୍ରଶିକ୍ଷଣ ଶିବିର ଅନୁଷ୍ଠିତ ହୋଇଯାଇଛି । ଶିବିରରେ ରାଜ୍ୟର ବିଭିନ୍ନ ଟେଷ୍ଟୟିଜ ଶିକ୍ଷାନୁଷ୍ଠାନର ଅଧ୍ୟାପକ, ଅଧ୍ୟାପିକା ଯୋଗଦେଇଥିଲେ । ବିଶେଷ କରି ଶିବିରରେ ନୂତନ ଓ ଅତ୍ୟନ୍ତୀ ଜ୍ଞାନ ଦୌଶଳ ବିଷୟରେ ଆଲୋଚନା ହୋଇଥିଲା । ଅଂଶଗ୍ରହଣକାରୀଙ୍କୁ ଅନୁଷ୍ଠାନ ପକ୍ଷରୁ ଅନ୍‌ଲାଇନ୍ ମାଧ୍ୟମରେ ମାନପତ୍ର ପ୍ରଦାନ କରାଯାଇଥିଲା । କାର୍ଯ୍ୟକ୍ରମରେ ଆଇଜିଆଇଟି ସରାଙ୍ଗର ନିର୍ଦ୍ଦେଶକ ଡ.ସତ୍ୟବ୍ରତ ମହନ୍ତ, ସାଞ୍ଚାଳକ ଡ.ଧ୍ରୁବେନ୍ କୁମାର ଦେହେରା, ସୌମ୍ୟ ରଞ୍ଜନ ପ୍ରଧାନ, ଗୌରବ ଘୋଷ, ବିଭାଗୀୟ ମୁଖ୍ୟ ଡ.ବିଦ୍ୟାଧର ସାହୁ, ଏନ୍‌ଆଇଟି ରାଉରକେଲାର ପୂର୍ବତନ ନିର୍ଦ୍ଦେଶକ ସୁନୀଲ ଷଡ଼ଙ୍ଗୀ, ଆଇଆଇଟି ଗୁଉହାଟିର ଡ.ପ୍ରତାପ କୁମାର, ଆଇଆଇଟି ଖଡ଼ଗପୁରର ଡ. ସୁମନ୍ ଚକ୍ରବର୍ତ୍ତୀ, ଜିଆଇଏଟି ବ୍ରହ୍ମେଶ୍ୱରର ଡ.ସତ୍ୟାନନ୍ଦ ସ୍ୱାଇଁ, ଏନ୍‌ଆଇଟିଆଇଇ ମୁମ୍ବାଇର ନିର୍ଦ୍ଦେଶକ ଡ.ମନୋଜ କୁମାର ଦିଣ୍ଡା, ଏନ୍‌ଆଇଟି ରାଉରକେଲା ଡ.ଏସ ଜେ ସାହୁ, ଆଇଆଇଟି ଖଡ଼ଗପୁରର ଡ.ପି କେ ଦାସ, ଡ.ଜିଜେ ପ୍ରତିକାରୀ ପ୍ରମୁଖ ଯୋଗଦେଇ ମାର୍ଗଦର୍ଶନ କରାଇଥିଲେ ।

Short term course on “Recent Trends in Mechanical Engineering (RTME-2021) Department of Mechanical Engineering



Two days TEQIP-III Sponsored National Conference conducted on “Emerging Trends in Engineering Science and Manufacturing, (ETESM-2018) ”, ,Department of Mechanical Engineering, I.G.I.T, SARANG-759 146,Dhenkanal, Odisha, India.

Distinguished Alumnus

Pratik Behera,Associate Consultant,Wipro Ltd. , Bhubnaewwar, 2021

Hitesh Gupta, Engineer,ArcelorMittal Nippon Steel India, 2021

K SAI SANTOSH,Indian institute of technology Bhubaneswar 2021

Aditya Kumar Sahoo,
Software Engineer trainee,
Inaho digital solutions,
Bhubaneswar,2021

Chandrasekhar Mahapatra,
Assistant System Engineer,
Tata Consultancy Services
2021

Siddhartha Sahoo,
System Engineer,
Infosys Limited
2021

Akanksha Behera,
Associate Consultant
IBM India Pvt Ltd, Manyata
Tech Park, Bangalore
2021

Amitesh Pattanaik
Management Engineer
Trainee
TATA STEEL BSL
2021

Saswati Panda
Programmer Analyst
Cognizant Technology
Solutions India,2021

Nihar Ranjan Sahoo
Analyst

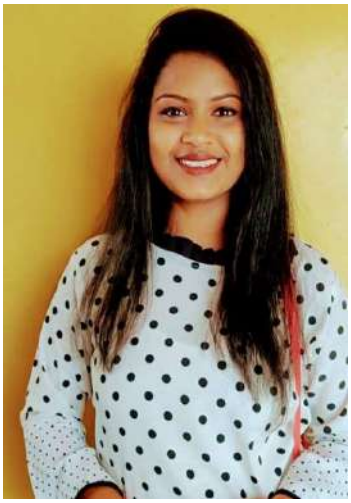
Avishek Parida
MBA

Swadhin Swaroop

HCL Technology
2021

IIM Indore
2021

Programmer Analyst Trainee
Cognizant, Bangalore
2021



ARCHITA MOHAPATRA
Associate system engineer trainee
TCS, Bangalore
2021

Sumit Acharya
MBA
XIMB
2021

ITISHREE BHOI
Associate Business Analyst
Infosys Ltd. , Pune SEZ
Phase II
2021

Pratyush Ranjan Bal
Associate Software Engineer
Accenture bangalore
2021

ALEX NAYAK
MET
Tata steel bs ltd, meramandali, dhenkanal
2021

Bishwabhushan Panda
ASE
Accenture
2020

Satya Swarup Behura
ASE
Accenture
2020

DEBASISH PANDA
GET
Aarti steels limited,
Ghantikhal, Cuttack
2020

Lipysmita Patel
Software Engineer
HCL technologies,
2020

Santosh Das
Junior engineer
Tata Steel Kalinganagar, Odisha.
2020

Avinash Swain
MBA, XIMB
2020

SUVANKA ROUT
System engineer
Infosys, Bangalore
2020

Chandan Behera
TATA STEEL , KALINGA NAGAR
2020

Manjit Biswal, BDA
BYJUS, BBSR
2020

Subhakanta Swain
Senior executive
Indiamart, 2020

Technical Exhibition by Diploma Students

The diploma students participated in the Technical exhibition held on 6th March 2019 i.e. 38th Foundation Day of the Institute. Five Different groups showcase their project model in the organized event.

Sl. No.	Group No.	Participating students name	Regd. No.	Topic Name
1	1	ABHILASH NANDA	F16004004002	WIND POWERED WATER PUMP
2		BABUL JENA	F16004004011	
3		DILLIP KUMAR MAJHI	F16004004022	
4		SUNIL KUMAR SAMAL	F16004004056	
5		CHANDRA SEKHAR NAYAK	F16004009018	
6	2	ABHISEKH PARIDA	F16004004003	BATTERY OPERATED SOLAR WEEDER
7		BIJAN KUMAR SAHU	F16004004013	
8		HIRALAL MUNDIYA	F16004004023	
9		SWARAJ SWAIN MOHAPATRA	F16004004058	
10		ABHIRAM PRADHAN	L17004004001	
11	3	CHINMAYA CHIRANJIBI DEHURI	F16004001011	AUTOMATIC DRAINAGE CLEANING MACHINE
12		LALIT MOHAN PRADHAN	F16004004028	
13		SIPUN BEHERA	F16004004052	
14		DEEPAK KUMAR SWAIN	L17004004006	
15		HARI SHANKAR KUMAR	L17004004007	
16	4	SURYA NARAYAN ROUT	F16004002054	AUTOMATIC WHITE BOARD CLEANER
17		APARNA SAMAL	F16004004008	
18		DEBASISH MOHANTY	F16004004020	
19		LIJA RANI PARIDA	F16004004029	
20		RITIK KUMAR MITRA	F16004004040	
21	5	SOUMYA RANJAN PRADHAN	F16004002049	HYDRAULIC POWERPLANT
22		ASIS KHILAR	F16004004010	
23		BIKASH HEMBRAM	F16004004014	
24		NIRMAL KUMAR MAJHI	F16004004032	
25		TAPAS KUMAR SAHOO	L17004004014	

<table>
<tr>
<td> 
Solar Powered Water Pump</td>
<td> 
Battery Operated Solar Weeder</td>
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<tr>
<td> 
Automatic Drainage Cleaning Machine</td>
<td> 
Hydro Power Plant Model</td>
</tr>
</table>

Publications (Journal)

1. Pattanayak, S., & Choudhury, B. B. (2021). Modified crash-minimization path designing approach for autonomous material handling robot. Evolutionary Intelligence, 14(1), 21-34.

2. Nayak, S., Pattanayak, S., Choudhury, B. B., & Kumar, N. (2020). Selection of Industrial Robot Using Fuzzy Logic Approach. In Computational Intelligence in Data Mining (pp. 221-232). Springer, Singapore.
3. Sahu, S., & Choudhury, B. B. (2020). PSO Based Path Planning of a Six-Axis Industrial Robot. In Computational Intelligence in Data Mining (pp. 213-220). Springer, Singapore.
4. Pattanayak, S., & Choudhury, B. B. (2020). An effective trajectory planning for a material handling robot using PSO algorithm. In Computational Intelligence in Data Mining (pp. 73-81). Springer, Singapore.
5. Sahu, S., & Choudhury, B. B. (2020). Fuzzy Logic Based Path Planning for Industrial Robot. In Robotic Systems: Concepts, Methodologies, Tools, and Applications (pp. 355-364). IGI Global.
6. Goswami, S. S., & Behera, D. K. (2021). Solving Material Handling Equipment Selection Problems in an Industry with the Help of Entropy Integrated COPRAS and ARAS MCDM techniques. Process Integration and Optimization for Sustainability, 1-27.
7. Goswami, S. S. S., Behera, D. K. K., Afzal, A., Razak Kaladgi, A., Khan, S. A. A., Rajendran, P., ... & Asif, M. (2021). Analysis of a Robot Selection Problem Using Two Newly Developed Hybrid MCDM Models of TOPSIS-ARAS and COPRAS-ARAS. Symmetry, 13(8), 1331.
8. Goswami, S. S., & Behera, D. K. (2021). Best Laptop Model Selection by Applying Integrated AHP-TOPSIS Methodology. International Journal of Project Management and Productivity Assessment (IJPMPA), 9(2), 29-47.
9. Pani, S., Behera, D. K., & Praharaj, A. K. (2021, May). Review and evaluation on static and free vibration analysis of laminated graphite-epoxy composite plate. In AIP Conference Proceedings (Vol. 2341, No. 1, p. 020004). AIP Publishing LLC.
10. Goswami, S. S., & Behera, D. K. (2021). An Analysis for Selecting Best Smartphone Model by AHP-TOPSIS Decision-Making Methodology. International Journal of Service Science, Management, Engineering, and Technology (IJSSMET), 12(3), 116-137.
11. Goswami, S. S., & Behera, D. K. (2021). Evaluation of the best smartphone model in the market by integrating fuzzy-AHP and PROMETHEE decision-making approach. Decision, 48(1), 71-96.
12. Goswami, S. S., & Behera, D. K. (2021). Implementation of COPRAS and ARAS MCDM Approach for the Proper Selection of Green Cutting Fluid. In Current Advances in Mechanical Engineering (pp. 975-987). Springer, Singapore.
13. Goswami, S. S., & Behera, D. K. (2021). Implementation of ENTROPY-ARAS decision making methodology in the selection of best engineering materials. Materials Today: Proceedings, 38, 2256-2262.
14. Goswami, S. S., & Behera, D. K. (2021). Selection of Suppliers by Weighted Aggregated Sum Product Assessment (WASPAS) Method. In Advanced Manufacturing Systems and

Innovative Product Design: Select Proceedings of IPDIMS 2020 (pp. 117-129). Springer Singapore.

15. Rahim, M. A., Rahman, M. H., Akhand, M. H., & Behera, D. K. (2021). Packing Density of a Tori-Connected Flattened Butterfly Network. In Advances in Machine Learning and Computational Intelligence (pp. 437-444). Springer, Singapore.

16. Thakoor, N., Behera, D. K., Tangman, D. Y., & Bhuruth, M. (2020). Howard's algorithm for high-order approximations of American options under jump-diffusion models. International Journal of Data Science and Analytics, 10(2), 193-203.

17. Goswami, S. S., Behera, D. K., & Mitra, S. (2020, June). Supplier Selection Problem by Applying Additive Ratio Assessment (ARAS) Methodology. In International Conference on Thermal Engineering and Management Advances (pp. 369-382). Springer, Singapore.

18. Goswami, S. S., Behera, D. K., & Mitra, S. (2020). A Comprehensive Study of Weighted Product Model for Selecting the Best Product in Our Daily Life. Brazilian Journal of Operations & Production Management, 17(2), 1-18.

19. Pani, S., & Behera, D. K. (2020). Active constrained layer damping treatment on graphene reinforced composite plates. Materials Today: Proceedings, 33, 5206-5212.

20. Rahman, M. H., Ali, M. N. M., Olamide, O. A., & Behera, D. K. (2020). Shifted Peterson Network: A New Network for Network-on-Chip. In Computational Intelligence in Pattern Recognition (pp. 599-609). Springer, Singapore.

21. Paital, C., Kumar, S., Muni, M. K., Parhi, D. R., & Dhal, P. R. (2021). Navigation of a wheeled mobile robotic agent using modified grey wolf optimization controller. International Journal of Intelligent Unmanned Systems.

22. Das, D. and Meikap, B.C., 2021. Removal of CO2 in a multi stage fluidised bed reactor by monoethanolamine impregnated activated carbon. Mineral Processing and Extractive Metallurgy, 130(2), pp.98-104.

23. Paital, C., Kumar, S., Muni, M. K., Parhi, D. R., & Dhal, P. R. (2021). Navigation of a wheeled mobile robotic agent using modified grey wolf optimization controller. International Journal of Intelligent Unmanned Systems.

24. Das, P., Muni, M. K., & Sahu, S. K. (2021). On Crack Detection in a Laminated Glass/Epoxy Composite Beam under Free Vibration with Fuzzy Logic Aid. International Journal of Structural Stability and Dynamics, 2150176.

25. Muni, M. K., Kumar, S., Parhi, D. R., & Pandey, K. K. (2021). Water cycle algorithm: an approach for improvement of navigational strategy of multiple humanoid robots. Robotica, 1-19.

26. Kumar, P. B., Parhi, D. R., Muni, M. K., Pandey, K. K., Chhotray, A., & Pradhan, D. Dynamic Strategy Planning of Humanoid Robots Using Glowworm-Based Optimization. Robotica, 1-13.

27. Muni, M. K., Parhi, D. R., Kumar, P. B., & Kumar, S. (2020). Motion control of multiple humanoids using a hybridized prim's algorithm-fuzzy controller. Soft Computing, 1-22.

28. Muni, M. K., Parhi, D. R., Kumar, P. B., & Rath, A. K. (2020). Navigational analysis of multiple humanoids using a hybridized rule base-Sugeno fuzzy controller. International Journal of Humanoid Robotics, 17(04).

29. Kumar, S., Parhi, D.R., Muni, M.K. and Pandey, K.K. (2020), "Optimal path search and control of mobile robot using hybridized sine-cosine algorithm and ant colony optimization technique", Industrial Robot, Vol. 47 No. 4, pp. 535-545.

30. Muni, M. K., Parhi, D. R., & Kumar, P. B. (2020). Implementation of grey wolf optimization controller for multiple humanoid navigation. Computer Animation and Virtual Worlds, 31(3), e1919.

31. Ghosh, G. K., Kotia, A., Kumar, N., & Ghosh, S. K. (2021). Performance Evaluation of Graphene-Gear Oil Nanolubricants in Rayleigh Step Bearing. In Advances in Metrology and Measurement of Engineering Surfaces (pp. 109-118). Springer.

32. Ghosh, G. K., Kotia, A., Kumar, N., & Ghosh, S. K. (2021). Optimization and modeling of rheological characteristics for graphene-gear oil based nanolubricant using response surface methodology. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 630, 127605.

33. Nayak, D. K., Pradhan, M., Jena, P. K., & Dash, P. (2020). Dynamic Stability Analysis of an Asymmetric Sandwich Beam on a Sinusoidal Pasternak Foundation. In Innovative Product Design and Intelligent Manufacturing Systems (pp. 101-111).

34. Nayak, D. K., & Dash, P. (2020). Static Stability Investigation of an Asymmetric Sandwich Beam in Temperature Environment. In Advances in Mechanical Engineering (pp. 1203-1214). Springer, Singapore.

35. Pandey, K. K., Thakare, A. M., Kumar, S., Muni, M. K., & Parhi, D. R. (2021, May). Trajectory optimization of wheeled mobile robot (WMR) in the wall-type arena. In AIP Conference Proceedings (Vol. 2341, No. 1, p. 020028). AIP Publishing LLC.

36. Muni, M. K., Parhi, D. R., Kumar, P. B., Sahu, C., Dhal, P. R., & Kumar, S. (2021). Global Path Optimization of Humanoid NAO in Static Environment Using Prim's Algorithm. In Intelligent Systems (pp. 25-34). Springer, Singapore.

37. Kumar, S., Muni, M. K., Pandey, K. K., Chhotray, A., & Parhi, D. R. (2020). Path Planning and Control of Mobile Robots Using Modified Tabu Search Algorithm in Complex Environment.

38. Muni, M. K., Parhi, D. R., Kumar, P., Pandey, K. K., Kumar, S., & Chhotray, A. (2020). Sugeno Fuzzy Logic Analysis: Navigation of Multiple Humanoids in Complex Environments.

39. Kumar, S., Pandey, K. K., Muni, M. K., & Parhi, D. R. (2020). Path Planning of the Mobile Robot Using Fuzzified Advanced Ant Colony Optimization. In Innovative Product Design and Intelligent Manufacturing Systems (pp. 1043-1052). Springer, Singapore.

40. Muni, M. K., Kumar, P. B., Parhi, D. R., Rath, A. K., Das, H. C., Chhotray, A., ... & Salony, K. (2020). Path Planning of a Humanoid Robot Using Rule-Based Technique. In Advances in Mechanical Engineering (pp. 1547-1554). Springer, Singapore.

41. Kashyap, A. K., Parhi, D. R., Kumar, S., Pandey, A., Muni, M. K., & Ranjan Dhal, P. (2021). Safe Navigation of Humanoid Robot in Cluttered Terrain Using Ant Lion Optimizer Tuned RA Approach. In Current Advances in Mechanical Engineering (pp. 997-1006). Springer, Singapore.

42. Kumar, S., Parhi, D. R., Kashyap, A. K., Muni, M. K., & Dhal, P. R. (2021). Navigational Control and Path Optimization of Mobile Robot Using Updated Sine–Cosine Algorithm in Obscure Environment. In Current Advances in Mechanical Engineering (pp. 989-996). Springer, Singapore.

43. Muni, M. K., Parhi, D. R., Kumar, P. B., Dhal, P. R., Kumar, S., Sahu, C., & Kashyap, A. K. (2021). Probability Plot Result Comparison with Recurrent Neural Network Approach for Path Navigation of a Humanoid in Complex Terrain. In Current Advances in Mechanical Engineering (pp. 579-588). Springer, Singapore.

44. Kumar, S., Parhi, D. R., Kashyap, A. K., & Muni, M. K. Static and dynamic path optimization of multiple mobile robot using hybridized fuzzy logic-whale optimization algorithm. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science.

45. Kashyap, A. K., Parhi, D. R., Muni, M. K., & Pandey, K. K. (2020). A hybrid technique for path planning of humanoid robot NAO in static and dynamic terrains. Applied Soft Computing.

Publications (Conferences)

1. Kumar, S., Parhi, D. R., Kashyap, A. K., Muni, M. K., & Dhal, P. R. (2021). Navigational Control and Path Optimization of Mobile Robot Using Updated Sine–Cosine Algorithm in Obscure Environment. In Current Advances in Mechanical Engineering (pp. 989-996). Springer, Singapore.
2. Muni, M. K., Parhi, D. R., Kumar, P. B., Dhal, P. R., Kumar, S., Sahu, C., & Kashyap, A. K. (2021). Probability Plot Result Comparison with Recurrent Neural Network Approach for Path Navigation of a Humanoid in Complex Terrain. In Current Advances in Mechanical Engineering (pp. 579-588). Springer, Singapore.
3. Sahu, S., & Choudhury, B. B. (2020). PSO Based Path Planning of a Six-Axis Industrial Robot. In Computational Intelligence in Data Mining (pp. 213-220). Springer, Singapore.
4. Sahu, S., & Choudhury, B. B. (2020). Fuzzy Logic Based Path Planning for Industrial Robot. In Robotic Systems: Concepts, Methodologies, Tools, and Applications (pp. 355-364). IGI Global.
5. Pradhan, J. P., & Singh, B. (2020). Experimental investigation on performance of a CI Engine using waste cooking oil biodiesel blends with alcohol and Nanoparticle additives as fuel. Materials Today: Proceedings, 24, 1332-1339.

6. Krishna Chandra Patra, Rabi Narayan Sethi and Dhiren Kumar Behera"Benchmark of Unsupervised Machine Learning Algorithms for condition monitoring" , Intelligent Systems, Springer, Volume 185,2021.
7. Laxmikant Swain, Rabi Narayan Sethi, A.K. Chaubey, and Silani Sahoo 'Fabrication and Characterisation of Aluminium Matrix Composite (Al 2024) Reinforced with Zircon Sand and Flyash, Advances in Production and Industrial Engineering, Springer,2021.
8. Rabinarayan Sethi, Rajesh Kumar Ojha, 'Study of Dry-Sliding Wear Behaviour of Cu-SiCp Metal Matrix Composites', Science Direct (Elsevier), Materials Today: Proceedings 21, pp:1255-1259, 2020.

B. Department of Electrical Engineering

Mission: To produce well trained Electrical Engineering graduates with innovative thinking, knowledge and skills, to excel in postgraduate programs or to succeed in technical profession and to instill in them the spirit of passion and dedication to work creatively and effectively for the betterment of humankind.

Vision: To be recognized among highly ranked Electrical Engineering programs of the nation through pursuit of excellence in teaching and research in all areas of Electrical Engineering and in service to the public.

Courses Offered

- B. Tech in Electrical Engineering
- M. Tech in Power System Engineering
- M. Tech in Power Electronics and Drives
- M. Tech in Power System engineering
- M. Tech in Energy System Engineering
- M. Tech in Industrial Power Control and Drives (Part Time)
- Ph. D in Electrical Engineering
- Diploma in Electrical Engineering.

Infrastructure

Departmental laboratories, seminar room, classrooms, meeting room, research laboratory, faculty rooms and department office are the most important aspects of the department infrastructure. Interactive LED display boards are used in the classrooms to make teaching and learning interesting. Faculty rooms and the Laboratories are equipped with WIFI to support online teaching. Department owns few licenses for softwares such as MATLAB, ETAP, PSIM for conducting

classes and research work. Softwares like ARDUINO are also used by the students for laboratory experiments, which are available on open source platform.

Laboratories

The department is furnished with well-equipped laboratories and workshops for the under graduate and post graduate students to enhance the practical knowledge and validate the theorems. The departmental laboratories are listed below.

- Basic Electrical Lab
- Electrical Machine Lab
- Energy Conversion Lab
- Power Electronics Lab
- Electric Drives Lab
- Control System Lab
- Measurement Lab
- Advanced Electric Drives Lab
- Advanced Power Electronics Lab
- Network Theory Lab
- Control and Instrumentation Lab
- Electrical Workshop

Demonstration of Experiments in Laboratory

Online Demonstration in Electrical Lab

Faculty Information

Sl. No	Name	Designation	Qualification	Research Area
1	Dr. Bibhu Prasad Panigrahi	Professor	PhD	Electrical Machine Drives and Power Electronics, Power System
2	Dr. Pranati Das	HOD & Professor	PhD	Signal Processing, Image Processing, Soft Computing, Power Electronics, Control & Instrumentation
3	Dr. Rabindra Behera	Associate Professor	PhD	Power System Planning and Operation, Design and Synthesis of Control Systems, Electrical Machine
4	Mr. Rabi Sankar Subudhi	Assistant Professor	M.Tech	Microprocessor
5	Dr. Maheswar Prasad Behera	Assistant Professor	Ph.D.	Solar Photovoltaic System, Active Power Filter, Grid connected PV system, Power System Control
6	Mr. Bidyadhar Biswal	Assistant Professor	M.Tech	Power System Engineering
7	Mr. Brijesh Kumar	Assistant Professor	M.Tech, Ph.D. continuing	Multilevel Inverter, Harmonic Elimination, Direct Torque Control (DTC) of Induction Motor

8	Mr. Umakanta Mahanta	Assistant Professor	M.Tech, Ph.D. continuing	Electric Machine Drives with Multilevel Inverter
9	Mr. Manoj Kumar Chaudhury	Assistant Professor	M.Tech, Ph.D. continuing	Power Electronics and Drives
10	Mr. Kali Charan Pradhan	Assistant Professor	M.Tech	Power System Fault Analysis, Power System Protection, Power System Optimisation
11	Mr. Binay Kumar Nayak	Assistant Professor	M.Tech	Industrial Process Control
12	Mrs. Mohamayee Mohapatra	Assistant Professor (Consl.)	M.Tech, Ph.D. continuing	Power Electronic Control and Drives, Renewable Energy
13	Ms. Rosalin Pradhan	Assistant Professor (Consl.)	M.Tech	Power System Engineering
14	Mr. Aditya Kumar Pati	Assistant Professor (Consl.)	M.Tech	Power Electronics and Drives, ALFC
15	Mrs. Rajashree Sahu	Assistant Professor (Consl.)	M.Tech	Power Electronic Control and Drives
16	Mr. Madhab Chandra Das	Assistant Professor (Consl.)	M.Tech	Power Electronic Control and Drives

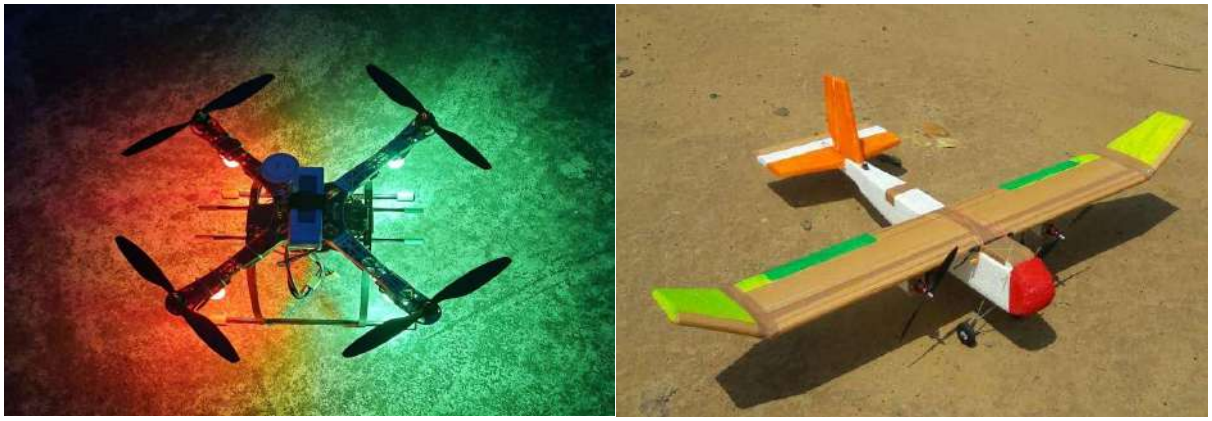
17	Mr. Bibhu Prasad Ganthia	Assistant Professor (Consl.)	M.Tech, Ph.D. continuing	Application of Artificial Intelligence and Machine
18	Mr. Narottam Maharana	Assistant Professor (Consl.)	M.Tech	Induction Motor Drive & Control
19	Mr. Lalitendu Sekhar Barik	Assistant Professor (Consl.)	M.Tech	DTC of Induction Motor using Three Level Inverter
20	Mr. Priya Pritam Panda	Assistant Professor (Consl.)	M.Tech	Embedded System, Radio Frequency, Renewable Energy
21	Mrs. Gyana Manjari Sahoo	Assistant Professor (Consl.)	M.Tech	Industrial Electronics
22	Ms. Binodinee Swain	Assistant Professor (Consl.)	M.Tech	ALFC, Power Flow Analysis
23	Ms. Abhipsa Kiran	Assistant Professor (Consl.)	M.Tech	Control and Instrumentation
24	Dr. Aditi Chatterjee	Assistant Professor (Consl.)	PhD	Power System, Control of Power Electronics Converter, Renewable Energy
25	Mr. Subrat Kumar Biswal	Assistant Professor (Consl.)	M.Tech	Power System Engineering
26	Mr. Biswajit Sahoo	Assistant Professor (Consl.)	M.Tech	Power Electronics and Drives

27	Mr. Bikasha Kumar Garnayak	Assistant Professor (Consl.)	M.Tech	Power System Engineering
28	Mr. Aparesh Prasad Biswal	Assistant Professor (Consl.)	M.Tech	Power System Engineering
29	Mr. Chinmay Kumar Nayak	Assistant Professor (Consl.)	M.Tech, Ph.D. continuing	Integration of Renewable Energy Sources with the Grid: Technical and Economical Aspect
30	Mrs. Samprati Mohanty	Assistant Professor (Consl.)	M.Tech	Power Electronics and Drives
31	Ms. Ritambhara Pradhan	Assistant Professor (Consl.)	M.Tech	Power System Engineering, Power Electronics and Drives
32	Mr. Manoj Kumar Moharana	Assistant Professor (Consl.)	M.Tech	Power Electronic and Drives, Renewable Energy, Power System Engineering
33	Mr. Sidhartha Kumar Samal	Assistant Professor (Consl.)	M.Tech	Power Electronics Control and Drives, Multilevel Inverter
34	Miss Utkalika Pradhan	Assistant Professor (Consl.)	M.Tech	Smart Grid

Research Activities in the Department

Research and Development play a crucial role in the development of improved products and processes related to electrical utilities and industries. The Department has created a culture of it with implementable outcome. Every year a good number of technical papers are published in international as well as national journals / conferences. The Department also has few high-end

equipment's to support research. Active Research is being carried out in the field of Non Linear Control Engineering, Power System Dynamics, Image Processing, Energy Conservation, Machines & Drives, Robotics, Intelligent Control, Renewable Energy, Smart Grid, Power System Planning & Management, Power System Protection, Power Electronics & Drives, and High Voltage Engineering.



Drones Designed by Mr. A.P Biswal, faculty member (2021)

Student Projects

SL. No.	Project Title (B. Tech)
1	Selective Harmonic Elimination in A Single-Phase Inverter Using Sinusoidal Pulse Width Modulation
2	Reduction of Electricity Theft with the help of IoT
3	Comparative Study of Different Pulse Width Modulation Techniques for Inverter
4	An Iot Based Low-Cost Smart "Weather Monitoring and Irrigation Technique" For an Agricultural Land Using Sensors: A Step Towards Smart Farming
5	IoT Based Monitoring and Control of Environmental Pollution
6	Dynamic Modelling, Simulation & Analysis of Induction Motor Drives
7	Integration of Wind Energy Conversion System with Microgrid And Utility
8	Mathematical Modelling of Type-IV Wind Turbine System
9	PV fed Battery Charging Using MPPT
10	Energy Management and Control of PV Based Microgrid Using Battery Energy Storage System

11	IOT based smart irrigation system.
12	Maximum Power Point tracking in Photo Voltaic System using Extremum Seeking Control
13	Simulation of STATCOM for Reactive Power Compensation using MATLAB
14	Design of Electric Vehicle using MATLAB/SIMULINK
15	Dynamic wireless charging of Electric vehicles on the move with mobile energy disseminators.
16	ZCS-ZVS soft switching converter connected to grid connected PV system
17	Two phase Buck Converter for battery charger of wind turbine power system
18	Simulation of Variable Frequency Drive
19	Application of Superconducting Fault Current Limiter for protection of Transmission System.

SL. No.	**Project Title (M. Tech)**
1	A comparative study on ST-DTC and fuzzy logic-based DTC of three phase induction motor with 3-level inverter
2	Simulation of a VSI for the selective harmonics elimination by SPWM
3	SVM-DTC of three phase induction motor using 3-level inverter
4	Design of Sepic converter for power factor correction
5	Implementation of series FACTS devices with POD controller to improve the stability and oscillation damping
6	Modelling and analysis of PV based AC microgrid using fault condition
7	Power quality improvement and power transfer of PV array to grid UPQC
8	Optimal solution to economic load dispatch using particle swarm optimization method
9	Modelling and analysis of bi-directional vehicle to grid interface under microgrid project.
10	Voltage sag compensation in HVDC transmission line connected to AC system
11	Modelling and analysis of resistive super conductive fault current limiter

Honours/Awards Received

Sl. No	Faculty Name	Name of Award	Granting authority	Award for	Year
1	Mr. Bibhu Prasad Ganthia	Excellence in Research International	NESIN	Research Awards on New Science Inventions	2020

Industrial Visit of 6th Semester students to Odisha Hydro Power Corporation, Rengali in 2020

Student's Corner
Placement

Sl. No.	Name of the Student	Organization	Annual Package	Passing Year
1	Chintan Ray	ACCENTURE	6.5 LAKHS	2021
2	Priyanka Dash	HCL	3.3 LAKHS	2021
3	Biswa Bhusan	TATA BSL	5 LAKHS	2021
4	PRATYUSH KUANR	BYJU'S	10 Lakhs	2021
5	Abhijeet Nayak	BYJU'S	10 Lakhs	2021
6	Pikun Polai	BYJU'S	10 LAKHS	2021
7	Debadatta Nayak	BYJU'S	10 LAKHS	2021
8	Sandeep Kumar Sahoo	JSW	5 LAKHS	2021
9	Abhijeet Nayak	JSW	5 LAKHS	2021
10	PRAYAS MOHANTY	JSW	5 LAKHS	2021
11	Abhijeet Nayak	Trisys	5 LAKHS	2021
12	Sneha Tiwary	TATA POWER	6.10 LAKHS	2021
13	Sushree Sambit Annwesha	ACCENTURE	4.5 LAKHS	2021
14	Shreemohan Panda	ACCENTURE	4.5 LAKHS	2021
15	Asha Rani Patra	TCS	3.46 LAKHS	2021
16	Manish Mishra	TCS	3.46 LAKHS	2021
17	Milisha Saran	TCS	3.46 LAKHS	2021
18	Smaranika Satapathy	TCS	3.46 LAKHS	2021
19	Sneha Das	TCS	3.46 LAKHS	2021

20	Sonali Bisoyi	TCS	3.46 LAKHS	2021
21	Sukanya Baliarsingh	TCS	3.46 LAKHS	2021
22	Subhadeep Ghosh	INFOSYS	3.6 LAKHS	2021
23	Sneha Tiwary	INFOSYS	3.6 LAKHS	2021
24	Bishal Kumar Mohanta	INFOSYS	3.6 LAKHS	2021
25	Nibedita Panda	INFOSYS	3.6 LAKHS	2021
26	Ishan Kumar Nayak	INFOSYS	3.6 LAKHS	2021
27	Sasmita Sahoo	INFOSYS	3.6 LAKHS	2021
28	Milisha Saran	TATA BSL	5 LAKHS	2021
29	Shubhalaxmi Sahoo	TATA BSL	5 LAKHS	2021
30	Swarna Sikha Sahoo	INFOSYS	4.5 LAKHS	2021
31	Kajal Giri	TATA POWER	6.10 LAKHS	2021
32	Ishan Kumar Nayak	TATA POWER	6.1 LAKHS	2021
33	Ashim Dash	TATA POWER	6.10 LAKHS	2021
34	Subhadeep Ghosh	ACCENTURE	4.5 LAKHS	2021
35	Santanu Nanda	NORTECH POWER	3 LAKHS	2021
36	Biswa Bhusan	Tata Steel BSL	5 LAKHS	2021
37	Abhipsa Rout	CAPGEMINI	4 LAKHS	2021

Higher Studies

Sl No	Year	Name of Student	Institute	Program	Specialization

1	2020-21	Pallabi Mahapatra	Veer Surendra Sai University of Technology, Burla	M.Tech.	Power Electronics control and Drives
2	2020-21	Dushmanta Pruseth	Veer Surendra Sai University of Technology, Burla	M.Tech.	Instrumentation and Control
3	2021-22	Ambika Prasad Dwibedy	Energy Institute, Bangalore	M.Tech.	Power and Energy System Engineering

Ongoing/Completed Projects

The department has achieved remarkable growth in laboratory facilities for students and research activities for the faculty members which have been possible due to the following Government of India Projects:

- AICTE MODROBS project for modernization of Energy Conversion lab of Electrical Engineering Department.
- AICTE (RPS) sponsored project for "Detection, classification and location faults in transmission line embedded with shunt compensated FACT device by application of Advance Signal processing tech".

STTPs/FDPs/ Conferences Organized

Sl No	Organization of FDPs/STPs/ Conferences/ Seminars	Level	Date
1	TEQIP-III Sponsored Five days Faculty Development Program on "RENEWABLE POWER GENERATION, CONTROL AND GRID INTEGRATION" RPGCGI 2020	National	10/08/2020 – 14/08/2020

Publications (Journal)

1. Umakanta Mahanta, Bhabesh Chandra Mohanta, Anup Kumar Panda, Bibhu Prasad Panigrahi, Fuzzy logic-based direct torque control for improvement of the fault-tolerant drive of a five-phase induction motor, Transactions of the Institute of Measurement and Control, DOI: 10.1177/01423312211015556,pages 1-9,2021.
2. U Mahanta, BC Mohanta, BP Panigrahi, AK Panda, A Comparative Analysis of Fuzzy Logic-Based DTC and ST-DTC Using Three-Level Inverter for Torque Ripple Reduction, Intelligent Systems: Proceedings of ICMIB 2020, 361, 2021.
3. Samita Padhi, Bibhu Prasad Panigrahi, Debaprasad Dash, Assessment of Dynamic Economic and Emission Dispatch Problem using WOA in Networked Grids with Photovoltaic Power Injection, Transactions of the Indian National Academy of Engineering , 2020.
4. M. Mohapatra, A.K. Panda, B.P. Panigrahi,Real-Time Implementation of Interleaved Soft-Switching Boost Converter Connected to Stand-Alone Photovoltaic System using Adaptive Fuzzy MPPT, Journal of Institution of Engineers, India, Series B Springer, 2020.
5. Samita Padhi Padhi, Bibhu Prasad Panigrahi, Debaprasad Dash, Solving Dynamic Economic Emission Dispatch Problem with Uncertainty of Wind and Load Using Whale Optimization Algorithm, Journal of The Institution of Engineers (India): Series B, 2020.
6. NC Patel, BK Sahu, DP Bagarty, P Das, MK Debnath, A novel application of ALO-based fractional order fuzzy PID controller for AGC of power system with diverse sources of generation, The International Journal of Electrical Engineering & Education 58 (2), 465-487, 2021.
7. Arabinda Sahoo and Pranati Das, Dictionary based Image Compression via Sparse Representation, International Journal of Electrical and Computer Engineering, 2020.
8. Kishor Thakre, Kanungo Barada Mohanty, Aditi Chatterjee, Modelling and Simulation of an Asymmetrical Modular Multilevel Inverter with Less Number of Components, EPE Journal: European Power Electronics and Drives,2020.
9. Bibhu Prasad Ganthia, Steady-State and Dynamic Comparative Analysis of PI and Fuzzy Logic Controller in Stator Voltage Oriented Controlled DFIG Fed Wind Energy Conversion System, Journal of The Institution of Engineers (India): Series B volume ,2020.
10. Bibhu Prasad Ganthia, Shunt Connected FACTS Devices for LVRT Capability Enhancement in WECS, Engineering, Technology & Applied Science Research, 2020.
11. Bibhu Prasad Ganthia, Application of Hybrid FACTs Devices in DFIG based Wind Energy System for LVRT Capability Enhancements, Journal of Mechanics of Continua and Mathematical Sciences (JMCMS), 2020.
12. Bibhu Prasad Ganthia, Transient Analysis of Grid Integrated Stator Voltage Oriented Controlled Type-III DFIG driven Wind Turbine Energy System, Journal of Mechanics of Continua and Mathematical Sciences (JMCMS), 2020.

13. Chinmay Kumar Nayak, PV/BESS to support electric vehicle charging station integration in a capacity constrained power distribution grid using MCTLBO, Scientia Iranica, 2020.
14. Chinmay Kumar Nayak, Analysis of Photovoltaic & Battery Energy Storage System Impacts on Electric Distribution System Efficacy, International Journal on Electrical Engineering & Informatics, 2020.
15. Bibhu Prasad Ganthia, Rosalin Pradhan, Bibhu Prasad Panda, Rajat Bisoe, Subhashree Mishra, Swetaleena Sahoo, Application of Series Connected FACTS Devices for Low Voltage Ride Through Capability Enhancement using Phasor Measurement Unit in Wind Energy Conversion System, Journal of Information and Computational Science, ISSN: 1548-7741, Volume 11, Issue 9 - 2021.
16. Bibhu Prasad Ganthia ,A Comprehensive Examination For Band Gap Semiconductor Switches, Advances in Materials Science and Engineering,Hindawi (Science Citation Index Expanded) (Scopus), 2021.
17. Bibhu Prasad Ganthia, Modular Unmanned Aerial Vehicle Platform Design: Multi-Objective Evolutionary System Method, Computers & Electrical Engineering, Elsevier,2021.
18. Bibhu Prasad Ganthia, Genetic Algorithm Optimized and Type-I Fuzzy Logic Controlled Power Smoothing of Mathematical Modeled Type-III DFIG based Wind Turbine System, Materials Today: Proceedings, Elsevier,2021.
19. Bibhu Prasad Ganthia, Monitoring Nonlinearities and Power Smoothing in Modified Mathematical Modeled Type-III Wind Turbine System using Artificial Neural Network, IJATEE Accents Journal, Scopus, 2021.
20. Bibhu Prasad Ganthia, Radial Basis Function Artificial Neural Network Optimized Stability Analysis in Modified Mathematical Modeled Type-III Wind Turbine System using Bode Plot and Nyquist Plot, ECS Transaction Institute of Physics (IOP), 2021.
21. Bibhu Prasad Ganthia, Hardware in Loop (THIL 402) Validated Type-I Fuzzy Logic Control of Type-III Wind Turbine System under Transients, Journal of Electrical Systems(ESCI), 2021
22. Bibhu Prasad Ganthia, Nonlinear Dynamic Measurement Method of Software Reliability based Data Mining, International Journal of System Assurance Engineering and Management,Springer(ESCI),2021.
23. Bibhu Prasad Ganthia, Design of Modified Mechanical Drive Train Gear System in Type III DFIG Based Wind Turbine for Power Generation, WJE Emerald Publishing, 2021.
24. Bibhu Prasad Ganthia, Identifying and Ranking the Smartphone Addiction Factors among Youth using Fuzzy AHP Technique, Journal Nonlinear Engineering. Modeling and Application De Gruyter, 2021.
25. Bibhu Prasad Ganthia, Load Frequency Control of Multi Area System Incorporating Distributed Generation Resources Using Closed Loop Cascade of 3DOFPID-FPID-TID Controller, Journal of Hunan University Natural Sciences.2021.

26. Bibhu Prasad Ganthia, Fuzzy Logic Based Fault Current Prediction in Double Fed Induction Generator Based Wind Turbine System, Materials Today: Proceedings, Elsevier, 2021.

27. Bibhu Prasad Ganthia, Design and Control of a Solar Photovoltaic Fed Asymmetric Multilevel Inverter Using Computational Intelligence, Journal Annals of the Romanian Society for Cell Biology Volume 25,Issue 6, 2021.

28. Bibhu Prasad Ganthia, Cascade H Bridge Multilevel Inverter with Pwm for Lower Thd, Emi & Rfi Reduction, Journal Annals of the Romanian Society for Cell Biology,Volume 25,Issue 6, 2021.

Publications (Conferences)

1. Narayan Nayak, Pranati Das, Soumya Ranjan Das, Heading plane Control of an Autonomous Underwater Vehicle: A novel Fuzzy and Model Reference Adaptive Control Approach, Third International Conference on Advances in Electronics, Computers and Communications (ICAECC) 2020.
2. Deepak Kumar Maharana, Pranati Das, Automatic extraction of vessels from newly accessible dataset, Book chapter:Soft Computing: Theories and Applications, Springer, Singapore, page nos-1139-1150, 2020.
3. Lalit Mohan Satapathy, Pranati Das, A Novel Low Contrast Image Enhancement Using Adaptive Multi-Resolution Technique and SVD, Book chapter: Advances in Electrical Control and Signal Systems, Springer, Singapore, page nos-1021-1033, 2020.
4. Arabinda Sahoo, Pranati Das, Dictionary Design for Block-Based Intra-image Compression, Book chapter: Advances in Intelligent Computing and Communication, Springer, Singapore, page nos-217-223, 2020.
5. Siddhartha Behera, Brijesh Kumar, Rabindra Behera, Bibhu Prasad Panigrahi, Ranjan Kumar Behera, Durgesh Prasad Bagarty, Regulated Soft-Switching Power Supply Using Buck-Boost Converter, 2020, International Conference on Computational Intelligence for Smart Power System and Sustainable Energy (CISPSSE), IEEE
6. Bibhu Prasad Ganthia, Sliding Mode Control and Genetic Algorithm Optimized Removal of Wind Power and Torque Nonlinearities in Mathematical Modeled Type-III Wind Turbine System, IEEE Conference ,CITSM , Indonesia Chapter,2021.
7. Bibhu Prasad Ganthia, Wind Turbines in Energy Conversion System: Types & Techniques, Energy System in Electrical Engineering Springer, Book Chapter , 2021.
8. Bibhu Prasad Ganthia, Power Control of Modified Type-III DFIG based Wind Turbine System using 4-Mode-Type-I Fuzzy Logic Controller, Artificial Intelligence and Internet of Things for Renewable Energy Systems Series: Frontiers in Computational Intelligence, Book Chapter ,Web of Science, 2021.
9. Bibhu Prasad Ganthia, Artificial Ant Colony Optimized Direct Torque Control of Mathematically Modeled Induction Motor Drive using PI and Sliding Mode Controller, LNEE Springer,Conference, 2020.

10. Bibhu Prasad Ganthia, Direct Torque Control of Mathematically Modeled Induction Motor Drive using PI-Type-I Fuzzy Logic Controller and Sliding Mode Controller, LNNS,Springer, Conference, 2020.
11. Bibhu Prasad Ganthia, Genetic Algorithm Optimized Direct Torque Control of Mathematically Modeled Induction Motor Drive using PI and Sliding Mode Controller, LNEE, Springer, Conference,2020
12. Madhab Chandra Das, et. al. Performance enhancement of pi-controller using SVM for DFIG-grid interconnected system, 2nd International Conference of Emerging Technology, INCET-2021, on 21-23rd May, 2021, IEEE.

C. Department of Civil Engineering

Civil Engineering, the oldest and the parent branch of the Engineering is as old as human Civilization that concerns itself with construction and maintenance of public utilities like buildings, roads, bridges, water supply system etc. Rapid industrialisation and urbanisation has given birth to challenging construction ofskyscrapers, flyovers, long span bridges, atomic power plants, gigantic industrial complexes etc. to mention a few.

Faculty Information

Sl.No.	Faculty Name	Designation	Qualification	Research Area
1	Dr. Sudeep Kumar Chand	Professor	PhD	Geotechnical Engineering
2	Dr. Manoj Kumar Dash	Professor	PhD	Structural Engineering
3	Dr. Bikash Chandra Panda	Professor	PhD	Structural Engineering
4	Dr. Maheswar Maharana	Professor	PhD	Geotechnical Engineering
5	Dr. Pratap Kumar Pani	Professor	PhD	Structural Engineering

6	Dr. Tushar K. Nath	Professor	PhD	Water Resource Engineering
7	Dr. Chittaranjan Sahoo	Professor	PhD	Environmental Engineering
8	Dr. Rabindra Kumar Kar	Professor	PhD	Transportation Engineering
9	Dr. Goutam Kumar Pothal	Professor	PhD	Geotechnical Engineering
10	Mr. Suraj Kumar Sahu	Assistant Prof.	M.Tech	Structural Engineering
11	Dr. Bhagirathi Tripathy	Assistant Prof.	PhD	Construction Tech. & Management
12	Mrs. Priyadarshini Das	Assistant Prof.	M.Tech	Structural Engineering
13	Mr. Aditya Kumar Bhoi	Assistant Prof.	M.Tech	Geo Technical Engineering
14	Mr. Sujit Kumar Pradhan	Assistant Prof.	M.Tech	Transportation Engineering
15	Miss Adyasha Priyadarshini	Assistant Prof.	M.Tech	Structural Engineering
16	Mrs. Trushna Jena	Assistant Prof.	M.Tech	Structural Engineering
17	Mr. S. Senapati	Assistant Prof.	M.Tech	Geo Technical Engineering
18	Mr. Prateek Mishra	Assistant Prof. (Contractual)	M.Tech	Environmental Engineering
19	Mr Nimma Rambabu	Assistant Prof. (Contractual)	M.Tech	Structural Engineering
20	Mrs Sushree Sangita	Assistant Prof. (Contractual).	M.Tech	Geo Technical Engineering

21	Mrs P.P.Mohapatra	Assistant Prof. (Contractual)	M.Tech	Transportation Engineering
22	Mrs Swetankita Sahoo	Assistant Prof. (Contractual)	M.Tech	Transportation Engineering
23	Mrs Aryalaxmi Priyadarshini	Assistant Prof. (Contractual)	M.Tech	Water Resourse Engineering
24	Mrs P.D.Das	Assistant Prof. (Contractual)	M.Tech	Structural Engineering
25	Ms P.Subhasmita	Assistant Prof. (Contractual)	M.Tech	Structural Engineering
26	Mr. Kundan Kumar	Assistant Prof. (Contractual)	M.Tech	Environmental Engineering
27	Ms. Subhalaxmi Sahoo	Assistant Prof. (Contractual)	M.Tech	Environmental Science andEngineering
28	Ms. Answesha Rath	Assistant Prof. (Contractual)	M.Tech	Transportation Engineering

Laboratories

The department has the following well-equipped laboratories to cater to the needs of theundergraduate as well as postgraduate programmes.

1. Environmental Engineering Laboratory
2. Geology Laboratory
3. Geotechnical Engineering Laboratory
4. Hydraulic Engineering Laboratory
5. Structural Engineering Laboratory
6. Transportation Engineering Laboratory
7. Departmental Computer Centre.

Project & Consultancy

With the financial grant received from the Ministry of H.R.D., Govt. of India, modernisation as well as research & development projects have been undertaken in Geotechnical Engineering, Environmental Engineering. Transportation Engineering, Hydraulic Engineering and Structural Engg. Laboratories.

The department regularly offers Consultancy service to a number of agencies including government and public sector undertakings such as PWD, OBCC, NALCO, NTPC, TTPS, MCL, CMPDI, RITES, RRCC, TAMRIT, GAMMON INDIA , GANNON DUNKERLY etc.

Research Activities

Research activities imparts momentum to the growth and is the hall mark of any academic department. With the limited facilities available for such activity in the department, its faculty are carrying out research in some frontier areas of Civil Engg. Are Earthquake resistant design and construction practices, Advanced Structural materials, Pavement Materials etc. A good number of papers in the above area are being presented and published at national and international conferences as well as in reputed national and international journals.

D. Department of Chemical Engineering

Mission: To produce well trained Chemical Engineering graduates with innovative thinking, knowledge and skills to excel in postgraduate programmes or to succeed in technical profession and to instill in them the spirit of passion and dedication to work creatively and effectively for the betterment of humankind.

Vision: To be recognized among highly ranked Chemical engineering programs of the nation through pursuit of excellence in teaching and research in all sub areas of Chemical engineering and in service to the public.

Courses Offered

- B. Tech in Chemical Engineering
- M. Tech in Chemical Engineering
- Ph.D. in Chemical Engineering

Infrastructure

Departmental laboratories, seminar room, classrooms, research laboratory, faculty rooms and department office are the most important aspect of department infrastructure. Interactive LED display boards are used in the classrooms to make teaching and learninginteresting. Faculty rooms

and laboratories are equipped with WIFI to support online teaching like Modernization of fuel technology laboratory sponsored by AICTE, Advanced research laboratory sponsored by SERB, DST, Skill and personality development program center sponsored by AICTE. The department has 11 nos. of faculty room, one HOD chamber, one office room, and one non-teaching staff room, Additionally, the department have a departmental Library to facilitate the students and staff for active reading during off hours

Laboratories

The department has the following state-of-the-art and well equipped laboratories

- Fluid Flow Lab
- Chemical Technology Lab
- Fuel Technology Lab
- Heat Transfer Lab
- Mass Transfer lab
- Process Control Lab
- Chemical Reaction Engineering Lab
- Computer Aided Design Lab
- Process Instrumentation Lab

Faculty Information

Sl. No.	Name of Faculty	Highest Qualification	Research Area
1	Dr. Satyabrata Mohanta	Ph.D.(IIT Kharagpur)	Mineral Processing Plant Optimization
2	Dr. (Mrs.) Dipa Das	Ph.D.(IIT Khara gpur)	Pollution Control CO_2 capture Fluidization Waste Water Treatment Adsorption
3	Mr. Anup Kumar Bairagi	M.Tech (IIT Roorkee)	Industrial Pollution Abatement
4	Dr. Anup Kumar Swain	Ph.D (NIT Rourkela),	Adsorptive removal of organics from industrial waste water using low-cost adsorbents. Synthesis and characterization of polymers.
5	Dr. Brahmotri Sahoo	Ph.D (Utkal University),	Mineral Processing

6	Dr. Harekrushna Sutar	PhD (Jadavpur University)	Tribology. Thin film and surface Coating. Composite materials. Fluidization, Water treatment. Polymer Technology Polymer Blends Bio-Polymer
7	Mrs. Ipsita D. Behera	M.Tech (NIT Rourkela),	Biotechnology
8	Mr. Kashinath Barik	M. Tech (IIT Kharagpur)	Fluid Mechanics Applied Mathematics,
9	Mr. Rabiranjan Murmu	M.Tech (IIT Madras)	Fuel Cell Polymer Technology
10	Dr. Chandradhwaj Nayak	PhD (IIT BHU)	Pulsating Drying Studies on bubble behavior in gas-liquid dispersion
11	Dr. Kshetramohan Sahoo	PhD (IISc Bangalore)	Particle engineering, Precipitation, Metal and drug nanoparticle synthesis, Liquid-liquid mixing, Atomization, Microfluidics, Impinging jet systems, and Spinning disc spinning bowl contactor
12	Mr. Pranab Kumar Mahalik	M.Tech (IIT Guwahati)	Petroleum Sc.&Technology
13	Dr. Sudip Banerjee	Ph.D.(IIT Kharagpur)	Process intensification, Chemical reaction engineering, Modeling and simulation, Control system, Artificial intelligence

Student's Corner

Projects

SL. No.	**Project Title (B.Tech)**
1	Preparation and Characterization of Amine modified Activated Carbon frfrom Corncob - Carbon Dioxide Capture
2	Removal of Ammonia-Nitrogen from waste water by adsorption
3	Review of Chemical leaching of aluminium from red mud
4	Preparation of Bio-Plastic using starch derivatives

5	Preparation Characterisation and performance analysis of Chitosan based membrane in DMFC
6	Preparation and Chracterization of NiCrBSi-Al2O3 Composite Coatings
7	Mathematical modeling by MATLAB to a hydrodynamic behavior of spouted bed and fluidized bed
8	Modelling ,Simulation and control of Non isothermal jacketed continuous stirred tank reactor

SL. No.	**Project Title (M.Tech)**
1	Comparison of adsorption capacity of amine modified activated carbon for CO_2 capture
2	Adsorptive removal of Ammonia-Nitrogen from Wastewater.
3	Preparation of Bio-plastic using Starch Derivatives.
4	The effect of Ionic Liquids on CNT modified chitosan composite membrane for direct methanol fuel cell
5	Mechanical, Thermal, and Morphological Properties of Graphene Nanoplatelet-Reinforced Polypropylene Nanocomposites: Effects of Nanofiller Thickness
6	Literature review on wet coal verification

Research Activities

The Department of Chemical Engineering upholds its research work by various projects and resolving current research problems to explore Engineering on a large scale. The Research area extends over diverse disciplines. Numerous research papers are published by the faculty members in various journals of repute and prestigious conferences. Department also has few high-end equipment to support research.

Ongoing/Completed Projects

Sl. No.	**PI/Co-PI Name**	**Area/ Nature of Work**	**Funding Agency**	**Duration**	**Project Cost**	**Status**
1	Prof. S. Mohanta & Dr. B.	Up gradation of Indian iron ore fines (-1 mm + 45 μm),	Science and Research Board,	3 Years	Rs. 30,60,000/-	On going

	Sahoo	slimes, low grade ores and tailings by Teeter bed separator	India			
2	Prof S. Mohanta	Skill and Personality Development Program Centre for SC/ST students SPDC	All India Council for Technical Education (AICTE)		Rs. 10,50,000/-	On going
3	Prof S. Mohanta	Modernization of the existing Fuel Technology laboratory to enhance our academic and research dimensions	All India Council for Technical Education (AICTE)		Rs. 10,50,000/-	Completed
4	Dr(Mrs)D Das	Preparation and characterization of biomass derived modified adsorbent for capture of CO_2 in a fluidized bed reactor	TEQIP-III	1 year	Rs.3,00,000/-	Completed
5	Dr(Mrs)D. Das	Capture of CO_2 from flue gas and its utilization	TEQIP-III	1 Year	Rs.1,40,000/-	Completed
6	Dr(Mrs)D. Das	Pollution load carrying capacity and source apportionment study in the industrial region	Chhattisgarh Environment Conservation Board	1 year		ongoing

		of Chhattisgarh State				

Placement

Sl.No	Name of the student	Achievements
1.	Anshuman Pradhan	Infosys
2.	Archit mohanty	NAS Oil and Gas LLC Dubai
3.	MD RAZAK	BYJU'S
4.	Pragnya Paramita Das	Tata Consultancy Services
5.	SUMAN SOURAV	Tefnut appliances
6.	Asit Kumar Behera	Infosys Limited
7.	Bijikanta Priyadarshy	JK PAPER Ltd.
8.	Deeptimayee Dalei	ACCENTURE
9.	K. Mohan Rao	TATA STEEL BSL
10.	RAKESH KUMAR SUBUDHI	TATA CONSULTANCY SERVICES
11.	Rohan pratap singh	Cognizant
12.	Swastika Mohanty	Tata Consultancy Services

Higher Studies

Sl. No.	Name	Stream	Admission Year	Institute Name	Specialization
1	Shramistha Mishra	Ph.D	2020	NIT Rourkela	Chemical Engg.
2	Sumit Swain	M.Tech	2020	ICT Mumbai	Chemical Engg.
3	Sivananda Acharya	M.Tech	2020	IIT Guwahati	Chemical Engg.
4	Dibya Deeprava Dalai	M.Tech	2020	NIT Warangal	Chemical Engg.
5	Ipsita Sahoo	Ph.D	2020	IIT Kharagpur	Chemical Engg.
6	Lipika Dash	M.Tech	2020	NIT Rourkela	Chemical Engg.

7	Satyabrata Sahoo	M.Tech	2020	IIT Kanpur	Chemical Engg.
8	S.K Nadeemudin	M.Tech	2020	NIT Raipur	Chemical Engg.
9	Sougat Panda	M.S	2020	Defence Institute of Advanced Technology Pune	Chemical Science & Technology
10	Deepen Kumar Das	M.Tech	2020	NIT Warangal	Chemical Engg.
11	Priyanka Sahoo	M.Tech	2020	BITS Goa	Chemical Engg.
12	Rudra Rath	M.Tech	2020	BITS Goa	Chemical Engg.
13	Ajay Kumar Mohanta	M.Tech	2020	IIT Kanpur	Chemical Engg.
14	Asish Abhisek	M.Tech	2020	NIT Warangal	Chemical Engg.
15	Pritam Mukopadhay	M.Tech	2020	IGIT Sarang	Chemical Engg.
16	Sibangi Rath	M.Tech	2020	IGIT Sarang	Chemical Engg.

STTPs/Conferences/FDPs Organized

Sl. No.	Event Name	Course Coordinators
1	Recent Advances in Chemical Engineering RACE 2020 (14th Dec-18th Dec 2020)	Dr. Harekrushna Sutar Asst. Prof., Chemical Engg .Dept., IGIT Sarang, Mr. Rabiranjan Murmu Asst. Prof., Chemical Engg. Dept., IGIT Sarang,

Publications

1. Das, D. and Meikap, B.C., 2021. Role of amine-impregnated activated carbon in carbon dioxide capture. Indian Chemical Engineer, 63(4), pp.435-447.
2. Sau, D.C., Murmu, R., Senapati, P. and Sutar, H., 2021. Optimization of Raceway Parameters in Iron Making Blast Furnace for Maximizing the Pulverized Coal Injection (PCI) Rate. Advances in Chemical Engineering and Science, 11(02), p.141.

3. Sutar, H., Mishra, B., Senapati, P., Murmu, R. and Sahu, D., 2021. Mechanical, Thermal, and Morphological Properties of Graphene Nanoplatelet-Reinforced Polypropylene Nanocomposites: Effects of Nanofiller Thickness. Journal of Composites Science, 5(1), p.24.
4. Sau, D.C., Banerjee, A., Chakravarty, S., Senapti, P., Murmu, R. and Sutar, H., 2021. Thermal Decomposition Behavior and Kinetic Study of Jamadoba Coal and Its Density Separated Macerals: A Non-Isothermal Approach. Advances in Chemical Engineering and Science, 11(3), pp.203-227.
5. Senapati, P., Sutar, H., Murmu, R. and Bajpai, S., 2021. Experimental Design of Solid Particle Wear Behavior of Ni-Based Composite Coatings. Journal of Composites Science, 5(5), p.133.
6. Sahu, D., Sutar, H., Senapati, P., Murmu, R. and Roy, D., 2021. Graphene, Graphene-Derivatives and Composites: Fundamentals, Synthesis Approaches to Applications. Journal of Composites Science, 5(7), p.181.
7. Sau, D.C., Banerjee, A., Chakravarty, S., Senapti, P., Murmu, R. and Sutar, H., 2021. Thermal Decomposition Behavior and Kinetic Study of Jamadoba Coal and Its Density Separated Macerals: A Non-Isothermal Approach. Advances in Chemical Engineering and Science, 11(3), pp.203-227.
8. Senapati, P., Sutar, H., Murmu, R. and Bajpai, S., 2021. Experimental Design of Solid Particle Wear Behavior of Ni-Based Composite Coatings. Journal of Composites Science, 5(5), p.133.
9. Sau, D.C., Murmu, R., Senapati, P. and Sutar, H., 2021. Optimization of Raceway Parameters in Iron Making Blast Furnace for Maximizing the Pulverized Coal Injection (PCI) Rate. Advances in Chemical Engineering and Science, 11(02), p.141.
10. Sutar, H., Mishra, B., Senapati, P., Murmu, R. and Sahu, D., 2021. Mechanical, Thermal, and Morphological Properties of Graphene Nanoplatelet-Reinforced Polypropylene Nanocomposites: Effects of Nanofiller Thickness. Journal of Composites Science, 5(1), p.24.
11. Senapati, P. and Sutar, H., 2020. Surface erosion behaviour over NiCrBSi-Al2O3 composite coatings. Materials Research Express, 7(7), p.076512.
12. Senapati, P. and Sutar, H., A Review on the Dominant Factors Affecting Silt Erosion in Hydro Turbines.
13. Aurangzeb, m. And banerjee, s., impact of coal mining on airborne particles based on real-time data.,vol 2, no.40,2020
14. Mohapatra, T., Manekar, S., Sahu, V.K., Soni, A.K., Banerjee, S. and Ghosh, P., 2021. Green synthesized Ag-TiO2 for degradation of organic dye through visible light driven photo-reactor and its kinetics. International Journal of Chemical Reactor Engineering, 19(9), pp.893-900.
15. Behera, I.D., Basak, G., Kumar, R.R., Sen, R. and Meikap, B.C., 2020. Treatment of petroleum refinery sludge by petroleum degrading bacterium Stenotrophomonas pavanii IRB19 as an efficient novel technology. Journal of Environmental Science and Health, Part A, 56(2), pp.226-239.
16. Bal, M., Behera, I.D., Kumari, U., Biswas, S. and Meikap, B.C., 2020. Hydrodynamic study and particulate matter removal in a self priming venturi scrubber. Environmental Technology & Innovation, 20, p.101167.

17. Biswas, S., Diwakar, R.K., Behera, I.D., Meikap, B.C. and Sen, T.K., 2020. Aqueous phase phenol removal from synthetic and real steel plant effluents through a batch and Semifluidized bed column operation: Experimental and model analysis. Journal of Environmental Chemical Engineering, 8(5), p.104441.
18. Behera, I.D., Nayak, M., Biswas, S., Meikap, B.C. and Sen, R., 2021. Enhanced biodegradation of total petroleum hydrocarbons by implementing a novel two-step bioaugmentation strategy using indigenous bacterial consortium. Journal of Environmental Management, 292, p.112746.
19. Mishra, A., Siddiqi, H., Kumari, U., Behera, I.D., Mukherjee, S. and Meikap, B.C., 2021. Pyrolysis of waste lubricating oil/waste motor oil to generate high-grade fuel oil: A comprehensive review. Renewable and Sustainable Energy Reviews, 150, p.111446.
20. Harekrushna Sutar, Slurry Erosion Behaviour of AISI 304 Stainless Steel Under Laboratory Conditions, Current Advances in Mechanical Engineering, 2021.
21. Harekrushna Sutar, Preparation and characterization of the SPEEK/PVA/Silica hybrid membrane for direct methanol fuel cell (DMFC), Polymer Bulletin, 2021.
22. Rabiranjan Murmu, The development of SPEEK-PVA-Silica hybrid membranes for low to medium temperature direct methanol fuel cells, Polymer Bulletin, 2021.

E. Department of Metallurgical and Materials Engineering

Mission: Based on the commitment of the Institute to education, Metallurgical and Materials Engineering Department is focused on imparting learning based, practice oriented technical education in Metallurgical and Materials Engineering through active involvement of students with extensive theory and laboratory experiences as well as participation in project works, training programs and research activities.

Vision: To provide students a broad education necessary to understand the impact of Metallurgical and Materials Engineering solutions in a global, societal, and environmental context.

Faculty Information

Sl. No.	Faculty Name	Qualification	Research Area
1	Dr. S.C. Patnaik	PhD	Physical Metallurgy, Powder Metallurgy
2	Dr. P. K. Mallik	PhD	Tribology of ceramics, Bio- Materials, Nanocomposite

3	Mrs. Swarnalata Behera	M.Tech	Industrial Metallurgy, Corrosion
4	Mr. Sandeep Kumar Sahoo	M.Tech	Ferrous Extractive Metallurgy
5	Mr. J.Majhi	M.Tech	Industrial Metallurgy Materials Processing
6	Mr. A. B. Pattnaik	M.Tech	Physical Metallurgy, Non-Destructive Testing
7	Mr. Siddharth Tiwari	M.Tech	Failure Analysis of Materials Fracture and fatigue of materials
8	Mrs. I.Tripathy	M.Tech	Phase Transformation of alloys
9	Mr. Jayanta Kumar Sahoo	M.Tech	Physical Metallurgy, Powder Metallurgy
10	Mr. Utpal Roy	M.Tech	Tribology of ceramics, Bio- Materials, Nanocomposite
11	Mr. Himansu Sahoo	M.Tech	Industrial Metallurgy, Corrosion
12	Mr. Suman Swain	M.Tech	Ferrous Extractive Metallurgy
13	Miss. P. P. Behera	M.Tech	Industrial Metallurgy Materials Processing
14	Mr.Sambit Kumar Sahoo	M.Tech	Physical Metallurgy, Non-Destructive Testing
15	Ms.Shaswoti Mohanty	M.Tech	Failure Analysis of Materials Fracture and fatigue of materials
16	Mr.Aditya Sahoo	M.Tech	Phase Transformation of alloys
17	Mr.Bhabani Prasad Sahoo	M.Tech	Phase Transformation of alloys

Laboratories

The department has set up the following laboratories with modern and sophisticated equipments with financial assistance received from World Bank.

1. Physical Metallurgy Laboratory
2. Heat Treatment Laboratory
3. Mineral Dressing Laboratory
4. Materials Processing Laboratory
5. Materials Testing Laboratory
6. Materials Characterisation Laboratory
7. Fuel Testing Laboratory
8. Computer Laboratory
9. Process Metallurgy Laboratory
10. Biomaterials Processing and Characterisation laboratory

The major facilities available in the department are: (i) Micro hardness Tester, (ii) Computerized UTM, (iii) Pin-on-Disc wear Testing machine, (iv) Carl-Zeiss Advanced Metallurgical Microscope with Image Analysis, (v) High Temperature Tube/ Box Furnace, 1400°C/1700°C, (vi) High Temperature Melting Furnace, 1450°C, (vii) High energy Planetary Micro ball Mill, (viii) Nikon Florescence Microscope, (vix) Wayne Kerr Impedance Analyser 6500B series. (Vx) CO2 Incubator. (Vxi) Hydraulic press 20 tons.

Project and Consultancy

The department has set up an Advanced Materials Processing and Characterisation Laboratory with grants from AICTE under the MODROB Scheme in 2002-03 and has also set up a Biomaterials Processing and Characterisation Laboratory with received grants from SERB, DST Govt. of India from 2017-2020.

The Metallurgical and Materials Engineering Department has been carrying out consultancy work in Analysis and Testing of Materials, Fuel Testing, Coal and Ore Analysis of nearby industries.

S.No.	**Title of the Project**	**Agency**	**Principal Investigator**	**Duration** **Years**	**Amount** **Rs.**
1	MODROB Project (Materials Testing Lab.	AICTE	Dr.S.C.Pattnaik	2002-2003	10 lakhs
2.	MODROB Project (Materials Processing Lab.)	AICTE	Dr.P.K.Mallik	2019-2020	10 lakhs

Research in the Department

In the Department of Metallurgical and Materials Engineering, research work is being carried out in the areas of Al-Si based Metal Matrix Composites, Microstructure – Property Correlation in Hyper-eutectic Al-Si alloys, kinetics of metallurgical processes, processing of advanced materials, development of ceramic cutting tools and structure and deformation studies of aluminum based alloys and composite materials, synthesis and processing of nanomaterials and nanocomposite, Tribology of materials, processing and characterization of biomaterials. Corrosion and degradation of materials.

S.No.	Title of the Project	Agency	Principal Investigator	Duration Years	Amount Rs.
1	Processing and Characterisation of Alumina-Calciumtitanate Electroconductive Nanocomposite for Femoral Head Replacement	SERB	Dr.P.K.Mallik	2017-2020	47.8 lakhs
2	Financial Sanction under Teachers Associateship for Research Excellence (TARE)	SERB	Mr.SiddharthaTiwari (IGIT Sarang) andDr.BhagyadharBhoi, (IMMT BBSR)		18,30,000/-

F. Department of Computer Science Engineering & Applications

Mission: To facilitate improve technologies and focus on vital services by strengthening the qualityof life with leadership and self-sufficiency to create enthusiasm among the students towards nation building

- To offer a high-quality education in the art and science of computing, as well as to prepare students for career opportunities in this area requiring a high level of technicalknowledge and skill.
- To develop and administer programs which serve the needs of industrial computer scientists, researchers and computer application specialists for

whom the discipline of computing sciences provides indispensable tools.

Vision: To be a place of academic excellence in frontier areas of Computer Science and Engineering to meet the challenges by bridging the gap between academic and industry so as to promote competitive academic programs through research activities that supports intellectual growth and skill acquisition.

To become a recognized ethical leader with morale in the state of Odisha and beyond, offering high-quality educational programmes in computer science and its applications.

Courses Offered

- B. Tech in Computer Science and Engineering
- M. Tech in Computer Science and Engineering
- M. Tech in Computer Science and Information Security
- Master in Computer Application
- Ph.D in Computer Science and Engineering

Infrastructure

Departmental laboratories, seminar room, classrooms, meeting room, research laboratory, faculty rooms and department office are the most important aspect of department infrastructure. Interactive LED display boards are used in the classrooms to make teaching and learning interesting. Faculty rooms and the Laboratories are equipped with WIFI to support onlineteaching. Department owns few licenses for softwares such as MATLAB, NetSim6,2, National rose. Aneka cloud for conducting classes and research work. Softwares like ARDUINO,JAVA and PYTHON are also used by the students for laboratory experiments, which are available on open source platform.

Laboratories

- Knowledge Center Lab
- Microprocessor and Architecture Lab
- Seminar Room
- Research Room
- Central Computing Lab

Central Computing Lab

Seminar Room

Faculty Information

Sl. No.	Faculty Name	Qualification	Research Area
1	Dr.Sarojananda Mishra	Ph.D	Fractal, Soft Computing & Wireless Network.
2	Mr. M. Srinivas	M.Tech	Semantic Informaion Processing, Nlp, Machine Learning
3	Dr. Sasmita Mishra	Ph.D	Fractal database system,AI&ML
4	Dr. Srinivas Sethi	Ph.D	Cognitive Radio Network, Wireless Communication,sensor and Networks, cloud computing.
5	Mr. Priyabrata Sahu	M.Tech	Computer Architecture, Database.
6	Dr. Sanjay Kumar Patra	Ph.D	Fractal network,AI&ML,Blockchain and Data security,
7	Dr. Dillip Kumar Swain	Ph.D	Computer Architecture, Operating system.
8	Dr. Niroj Kumar Pani	PhD	Wireless Communications
9	Dr. Biswnath Sethi	Ph.D	Cellular Automata and Machine learning
10	Dr. Sangita Pal	Ph.D	Study On Routing Protocol In Cognitive Radio Network
11	Mr. Sangram Keshari Nayak	M.Tech, PhD continuing	Network Protocol
12	Mr. Susanta Kumar Sahoo	M.Tech, PhD continuing	Data Mining
13	Mrs. AnupamaSahu	M.Tech, PhD continuing	Image Processing
14	Mr. Suvendu Kumar Jena	M.Tech, PhD continuing	Multidimensional Database, Data Mining
15	Dr. Subhendu Bhusan Rout	Ph.D	Bioinformatics

16	Mr. Ramesh Sahoo	M.Tech, PhD continuing	WSN, Cognetive Network, Crowdsensing
17	Mr. Binaya Kumar Patra	M.Tech,PhD continuing	WSN, IOT, UAV
18	Mr.Bapuji Rao	M.Tech,PhD continuing	Graph Mining
19	Mrs. Supriya Lenka	M.Tech, PhD continuing	Data Mining

Student's Corner

Project

SL. No.	Project Title (B.Tech)
1	Voice to Indian Sign LanguageTranslator
2	Exploratory Data Analysis on Haberman Cancer Survival Dataset
3	Ed-Flix: An E-Learning_hub
4	Smart garbage collection system
5	Online Facial RecognitionAttendance System
6	Sign Language detection using DeepLearning
7	Image Enhancement using Generative Adversarial Networks
8	Text to speech converter
9	Prediction and anomallydetection of temperature
10	Jarvis-Voice Assitant For Institutional & Other Queries
11	Online parking system
12	Student management system
13	Hospital managementsystem
14	Blood bank managementsystem
15	Online crime reportingsystem using python

16	Face detection usingtemplate matching

SL. No.	Project Title (M.Tech)
1	Wi-Fi Based Home Automation System
2	Crop Prediction Using Machine Learning
3	Sentiment Analysis of Odisha GovernmentScholarship Schemes Using Machine Learning
4	Smart Walking Stick for VisionlessPeople in Crowd sensing Environment
5	IoT based garbage monitoring System

SL. No.	Project Title (MCA)
1	E-Learning
2	Alumni Management System
3	Farma Point
4	Android News App
5	Ecomerce Website
6	E-House Rent
7	Student Online Test and Digital Score Generating System
8	Auto_Sawmill
9	Waste Management System
10	Pandemic E-Pharma
11	City Guiding System
12	E-Old Book Store

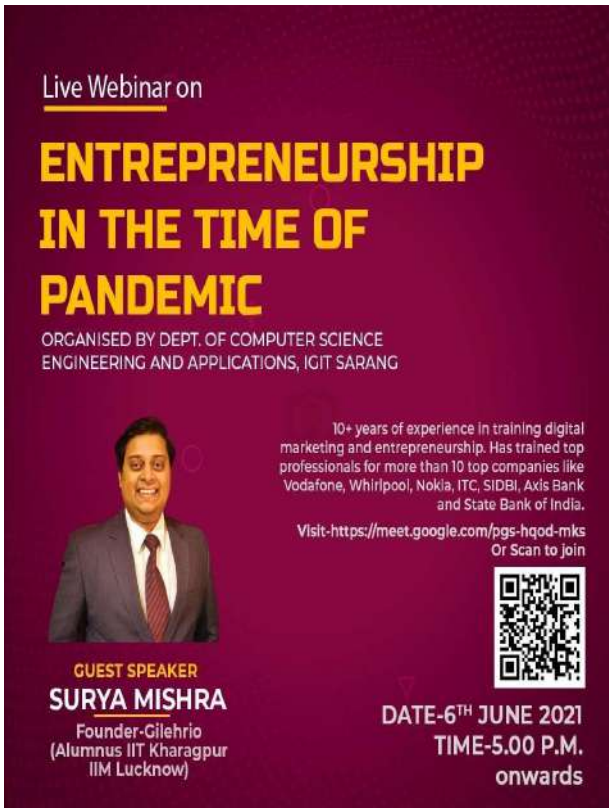
13	School Management System
14	Book Pub
15	Foodu : An Online Food OrderingSystem

Placement

Sl. No.	**Name of Student**	**Company Name**
1	Naseeb Ur Rahman Khan	TCS
2	MukeshMaharana	Atos
3	AndhavarapuSupriya	TCS
4	AdityaRanjanMohanty	Alld Technology
5	DebasmitaDebadarshini	Capgemini
6	P Ashmita Dora	Infosys
7	Rakesh Kumar Behera	Cognizant Technology Solution India
8	ShreeyaSethi	Accenture
9	Prasant Kumar Dey	ACCENTURE
10	AnsumanSamal	Accenture
11	SwadeshPatra	Accenture
12	Moumita Panda	TCS
13	AzazulHaque	Mavenir
14	Fagu Ram Besra	Atos
15	ArabindaGuin	CSM private limited
16	SonaliRashmirekha	Accenture
17	HrushikeshSahu	Applied Solar Technologies India Private limited
18	Subham Kumar Bagh	Cognizant
19	Yashobanta Kumar Behera	CredAble
20	Ashutosh Das Adhikari	Accenture

21	SidharthParthSarathi	Tata Consultancy Services
22	MdAzharuddin	Tata Consultancy Services
23	SankalpRath	Accenture
24	Jhalsa Mishra	Infosys
25	Sambit kumar Pradhan	Infosys
26	SoumyaRanjanNaik	KansoCloud
27	AmitTripathi	Accenture Solutions Pvt Ltd
28	AbinashSahoo	TCS
29	NehaRai	ESSPL, Bhubaneswar
30	Supriya Panda	Townhall Investment Adviser Private Limited
31	Nachiketa Dhal	Simplilearn Solutions Pvt. Ltd.
32	Abhijit Panda	Accenture
33	AbhishekMahapatra	TCS
34	SrutismitaNaik	Accenture
35	AshtikMahapatra	Wolters Kluwer

Industrial Lectures Organized



Honours/Awards Received

Sl. No	Name of Faculty	Name of the Program	topics	Name of the organiser	year
1	Dr Niroj KumarPani	Elite+Gold Medal in NPTEL online certification	Cloud Computing	NPTEL-AICTE	2019
2	Dr. Subhendu Bhusan Rout	International Conference on Information Communication and Multimedia Technology	Best Paper Award	KMJ Publications	2021
3	Mr Bapuji Rao	International Scientist Awards on Engineering, Science and Medicine, held on 11 & 12-Feb-2021, Pondicherry, India.	Best Research Award	VDGOOD Professional Association.	2021

Ongoing/Completed Projects

Sl No	Investigator Name	Area / Nature of Work	Funding Agency	Duration	Project Cost
1.	Dr Srinivas Sethi, Mr Ramesh Kumar Sahoo	Development of secured aware optical data routing using Multiobjective Optimizations in CognitiveRadio Ad Hoc Vehicular Network	TEQIP III	2 Years	2,82,000/-

2.	Dr Srinivas Sethi, Mr Ramesh Kumar Sahoo	I_CogMining- An IoT basedCognitive Mining using Accessing Cognitive Load	TEQIP III	2 Years	3,25,000/-
3.	Dr Srinivas Sethi, Mr Ramesh Kumar Sahoo	Analysis of Virtual Allocation policies towards the solution of security issuesby using multiple data centers in Cloud Computing	TEQIP III	1 Years	1,30,000/-
4.	Dr. Biswanath Sethi	Cellular Automata Model forthe Design and Implementation of an efficient pattern generation tool for samablpuri sarees and jute works.	DST-SERB, Govt. of India	3 Year	18,69000/-
5.	Dr Sanjay Kumar Patra	Factal Behaviour in network Packet Routing	TEQIP III	2 Years	2,20,000/-

Publications (Journal)

1. Sahu, A., Mishra, S., & Jena, K. K. (2021). A Machine Intelligence Based Model for the Classification of Odia Printed and Handwritten Images. *Elementary Education Online*, *20*(5),3733-3744.
2. Suvendu Kumar Jena,Dr. Sasmita Mishra,Dr. Sarojananda Mishra, Dr. Shekhar R, "Application Of Multidimensional Databases Of Psychological Study Based On Olap-Based Model", International Journal of Advanced Science and Technology, Vol. 29, No. 12s, (2020), pp. 3063 – 3071
3. Suvendu Kumar Jena, PriyabrataSahu, Sasmita Mishra, "The Information Processing Using Olap Related Modelon Film Multidimensional Database Framework", Journal Of Critical Reviews ISSN- 2394-5125 VOL 7, ISSUE 14, 2020
4. Suvendu Kumar Jena, Priyabrata Sahu, Dr. Sasmita Mishra, Umakanthaskar Gohatre4, "The Performance Analysis Of Optimized Load Balancing In Multidimensional Distributed Database System For Video On- Demand", International Journal of Psychosocial Rehabilitation, Vol. 24, Issue 03, 2020 ISSN: 1475-7192.
5. Priyabrata Sahu , Mahendra Kumar Garanayak , Abhimanyu Dash , Suvendu Kumar Jena, "The Classification Of Spam E-Mail Using Machine Learning Techniques", Kala Sarovar 23 No.02(II) July-September 2020

6. Bapuji Rao, Sarojananda Mishra, Detection of Sub-Community Graph in N-Community Graphs using Graph Mining, IJEAT, Volume-9, Issue-3, pp. 2014-2023, February 2020, BlueEyes Intelligence Engineering & Sciences Publication, India
7. Bapuji Rao, Detection of Patterns in Attributed Graph Using Graph Mining (Book Chapter), Data Science and Data Analytics: Opportunities and Challenges edited by Dr. A. K. Tyagi, Publication by CRC Press, 2021, USA
8. BapujiRao, Sarojananda Mishra, Sub-community Graph Retrieval from a Compressed Community Graph Using Graph Mining: New Perspective (Book Chapter), Emerging Trendsin Engineering Research and Technology, Vol. 6, pp. 11-26, 2020.
9. Bapuji Rao, N-Clustering of Text Documents Using Graph Mining Techniques (Book Chapter), Encyclopedia of Information Science and Technology, Fifth Edition (3 Volumes) (pp. 828-846). Hershey, PA: IGI Global. DOI:10.4018/978-1-7998-3479-3.ch057, 2020
10. S. B. Rout, S. Mishra D. K. Swain, Protein Structure Prediction of Amino Acid Compositions using Genetic Algorithm, International Journal of All Research Education and Scientific Methods, 2020
11. Srinivas Sethi, Ramesh K Sahoo, Design of WSN in real time application of health monitoring system, Virtual and Mobile Healthcare: Breakthroughs in Research and Practice,IGI Global, 2020.
12. Ashima Rout, Ramesh K Sahoo, Sangita Pal, Divyajyoti Dehury, Cognitive Function of Human Memory Using Machine Learning, Intelligent Systems, Springer, Singapore, 2021
13. Ramesh K Sahoo, SrinivasSethi, Siba K Udgata, A Smartphone App Based Model for Classification of Users and Reviews (A Case Study for Tourism Application), Intelligent Systems, Springer, Singapore, 2021.
14. Sangram Keshari Nayak, Sarojananda Mishra, Multi-Streaming Behavior in Protocol Independent Transport API., International Journal of Computer Science Trends and Technology (IJCST).Volume 9 Issue 1, 2021.
15. Sangram Keshari Nayak, Sarojananda Mishra, Simulation of SCTP Multi-Streaming using Protocol Independent Socket API., International Journal of Computer Science Trends and Technology (IJCST).Volume 9 Issue 2, 2021.
16. Susanta Kumar Sahoo, Sasmita Mishra, Dillip Kumar Swain, Improved AdaBoost Algorithmfor Big Data Analysis: A Review, THE American Journal of Humanities and Social SciencesResearch (THE AJHSSR) 2020 E-ISSN: 2581-8868 Volume-04, Issue-01, pp-15-21.
17. Soumya Das, Sarojananda Mishra, Manas Ranjan Senapati , New Approaches in Metaheuristic to Classify Medical Data Using Artificial Neural Network, *Arabian Journal for Science and Engineering* **45**, 2459–2471 (2020).
18. SumitraKisan, Sanjay Nayak, Ajay Chawda, Sarojananda Mishra, Sachi Nandan Mohanty , Face Shape Classification based on Modified Relative Improved Differential Box Count Method, International Journal of Advanced Science and Technology Vol. 29, No. 3, (2020), pp. 3878 – 3889.
19. Binaya Kumar Patra, Sanjay Kumar Patra, Sarojananda Mishra, Unconstrained Optimization Technique in WSN for Energy efficient clustering, Springer, ICMIB 2020.
20. Binaya Kumar Patra,Sanjay Kumar Patra, Sarojananda Mishra, Energy Efficient Clustering and Optimal Multipath Routing using Hybrid Metaheuristic Protocol in Wireless Sensor Network., Springer,Tehi 2021.

Book Publication

1. Data Structure using C with Sessional: Mrs. S.Mishra and S.N.Mishra, 2005, Alok Publications, Bhubaneswar.
2. Computer Fundamentals: for vocational +2 Sc. students of Orissa State, Text Book Bureau, Orissa.

JYOTI ANINDITA SAMAL

1st place in TREKKON conducted by Wissenaire'20, The Annual Techno-Management Fest of IIT,Bhubaneswar [2020]

Arpit Biswal

Invited to deliver talks in international platform, TedX

International Conference on Machine Learning, Internet of Things and Big DataOrganized by: Department of CSEA

G. Department of Electronics and Telecommunication Engineering

Mission: To facilitate improve technologies and focus on vital services by strengthening the quality of life with leadership and self-sufficiency to create enthusiasm among the students towards nation building.

Vision: To be a place of academic excellence in frontier areas of Electronics and Telecommunication Engineering to meet the challenges by bridging the gap between academic and industry so as to promote competitive academic programs through research activities that supports intellectual growth and skill acquisition.

Courses Offered

- B. Tech in Electronics and Telecommunication Engineering
- M. Tech in Electronics and Telecommunication Engineering
- M. Tech in Wireless Communication Technology
- Ph.D. in Electronics and Telecommunication Engineering
- Diploma in Electronics and Telecommunication Engineering

Infrastructure

Departmental laboratories, seminar room, classrooms, meeting room, research laboratory, faculty rooms and department office are the most important aspect of department infrastructure. Interactive LED display boards are used in the classrooms to make teaching and learning interesting. Faculty rooms and the Laboratories are equipped with WIFI to support online teaching. Department owns few licenses for softwares such as MATLAB, LABVIEW, OPTISYSTEM. OPTISPLICE for conducting classes and research work. Softwares like XILINX, ARDUINO, HFSS, and PYTHON are also used by the students for laboratory experiments, which are available on open-source platform. The department has 11 nos. of faculty room, one HOD chamber, one office room, one non teaching staff room, one meeting room and one store room. Additionally, the department is planning to have a departmental Library to facilitate the students and staff for active reading during off hours.

Laboratories

- Communication Lab
- Analog Electronics Lab
- Very Large Scale Integrated (VLSI) Lab
- Microwave Lab
- Research Lab (PG/PhD)
- Seminar Room

Online Demonstration in Communication Engineering lab

Online Demonstration in Communication Engineering lab

Programming Lab

Physical Demonstration in Analog electronics lab

Physical Demonstration in Microwave lab

Physical Demonstration in Digital electronics lab

Physical Demonstration in DSP lab

Physical Demonstration in NT lab

Faculty Information

Sl.No.	Faculty Name	Qualification	Research Area
1	Dr. Urmila Bhanja	Ph.D	Optical Network, Optimization Technique, Soft Computing & Wireless Network, Optical wireless communication, VANET
2	Dr. Ashima Rout	Ph.D	Cognitive Radio Network, Wireless Communication and Networks, Digital Communication & Digital signal processing. Soft Computing
3	Dr. Debajyoti Mishra	Ph.D	Optical Fiber Communication
4	Mr. Janmejaya Rout	M.Tech, PhD continuing	Signal Processing.
5	Mr. Kodanda Dhar Sa	M.Tech, PhD continuing	Signal and Image Processing
6	Mr. Paresh Kumar Pasayat	M.Tech	Data security, VLSI design
7	Mrs. Jemimah Digal	M.Tech	Wireless communication networks
8	Ms. Monalisha Nayak	M.Tech, PhD continuing	Soft computing, artificial intelligence, machine learning
9	Mrs. Jyotirekha Das	M.Tech	Wireless Communications
10	Mr. Abinash Pujari	M.Tech	Communication system engineering
11	Mr. Dillip Dash	M.Tech, PhD continuing	Radar signal processing, Image processing, Data Fusion
12	Mrs. Debapriya Parida	M.Tech	Communication system
13	Mrs. Meghamala Samant	M.Tech	Signal processing
14	Ms. Smrutirekha Prusty	M.Tech	Antennas
15	Mrs. Saptamee De Saha	M.Tech	VLSI and Microelectronics

16	Mr. Susant Kumar Samal	M.Tech, PhD continuing	Microwave Engineering
17	Mr. Lakhmi Kanta Mishra	M.Tech	VLSI and Embedded Systems
18	Dr. Soumya Ranjan Mishra	Ph.D	RF and Microwave(Antenna Engineering)
19	Mr. Bikash Chandra Sahoo	M.Tech, PhD continuing	Antenna array, Wearable Antenna, 5G wireless communications
20	Mr. Kumar Gaurav Suman	M.Tech	Internet of Things (IoT), Electronics and Communication Engg.
21	Mrs. Chinmayee Panda	M.Tech, PhD continuing	Free space Optical Communication
22	Mr. Gyanabrata Sahoo	M.Tech	MEMS/NEMS
23	Mr. Biranchi Narayan Behera	M.Tech, PhD continuing	VLSI for communication

Student's Corner

Projects

SL. No.	Project Title (B.Tech)
1	Cyber security issues in smart meter and their solutions
2	Accident Detection Using VANET Model and IoT
3	Brain Controlled Robotic Vehicle using BCI Technology
4	Speech Emotion Recognition
5	Automatic Access Control System using RFID Module and ESP32 Module
6	CNN Based De-noising and Reconstruction of Encrypted Image
7	Design And Analysis of Hybrid Data Security Algorithm with Message Integrity Test Using VHDL
8	Performance evaluation of different channel coding techniques for digital video broadcasting.
9	Automatic Speed Control and Accident Detection Using GSM
10	Smart Voice Assistant Using Python
11	Bone Fracture Detection Using Image Processing
12	Covid19 Detection Using CNN
13	IOT based smart irrigation system.

SL. No.	Project Title (M.Tech)
1	Design of IoT based Surveillance Robot
2	Design and Analysis of 5G Cell Free Massive MIMO with Improved Spectral Efficiency
3	Noise Reduction in images using Normalized Data Nonlinearity (NDN)-LMS Adaptation Technique
4	Performance of free space optical communication and optical wireless communication under Gamma Gamma channel
5	Analysis of virtual allocation policies towards the solution of security issues by using multiple data centers in cloud computing.
6	Channel estimation using artificial neural networks
7	Wavelet transform based multi focus image fusion
8	Design and Implementation of 128 bit data security algorithm using steganography and cryptography technique with message integrity test.

Higher Studies

Sl No	Year	Name of Student	Institute	Program	Specialization
1	2020-21	Ankit Dhurua	National Institute of Technology, Patna	M.Tech.	Microelectronics and VLSI Design
2	2020-21	KrishnaKanta Mahapatra	Friedrich-Alexandar-Universitat Erlangen-Nurnberg, Germany	MS	Information and Communication Technology

Placement

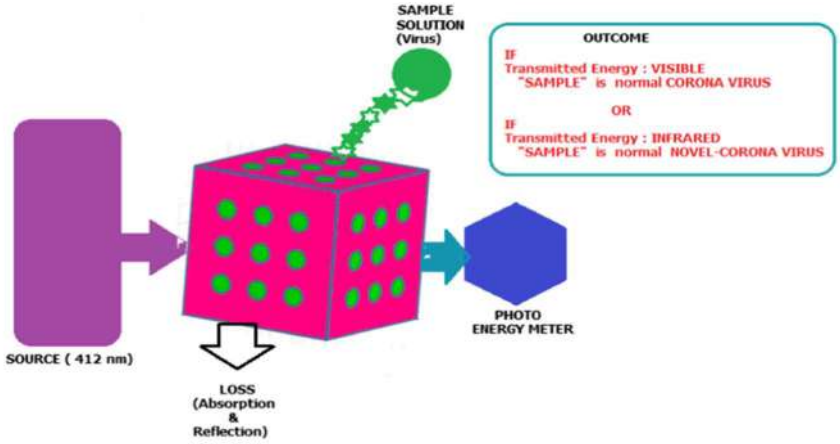
Sl.No	Name of the student	Achievements	Year Appeared
1.	Anshuman Dash	TCS,CAT(82 percentile)	2021
2.	Arnab Tripathy	TCS	2021
3.	Nishant Sahoo	TCS,CAT(90.2 percentile)	2021
4.	Nibedita Mohato	TCS	2021
5.	Aishwarya Dhal	TCS	2021
6.	Sabyasachi Rout	TCS	2021
7.	Prateek Samal	TCS	2021
8.	Ayan Lodh	Wipro	2021
9.	Labdhi Jain	Wipro	2021
10.	Harshashri Manima Nanda	Infosys	2021
11.	Soumya Ranjan Patra	Infosys	2021
12.	Swastik Das	Infosys	2021
13.	Ritika Sahu	IBM	2021
14.	Ankit Dhurua	Gate,MTech(NIT, Patna)	2021
15	Swastik Das	Gate	2021
16.	Rajendra Nayak	Gate	2021
17.	Ashish Nayak	Gate	2021
18.	SRRN Priyadarshini	Accenture	2021
19.	Rajesh Kumar Sahu	Accenture	2021
20.	Oashis Das	Accenture	2021
21.	Dibyajyoti Samal	Accenture	2021
22.	MD Kaif Ali	Mphasis	2021
23.	Manaswita Panigrahi	Capgemini	2021

Research Activities in the Department

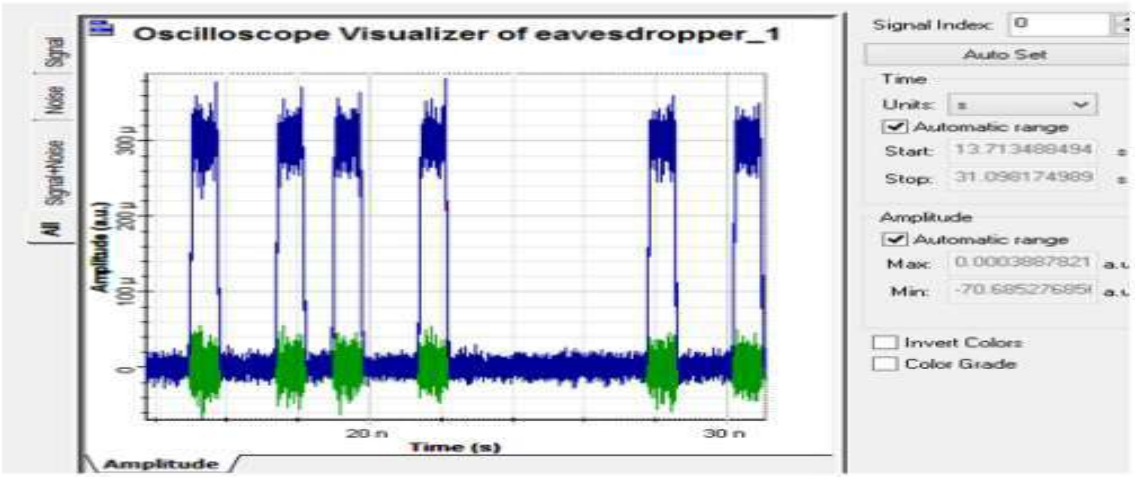
The Department of Electronics and Telecommunication upholds its research work by various projects and resolving current research problems to explore Engineering on a large scale. The Research area extends over diverse disciplines such as intelligent communication, modern wireless access technologies, free space fiber optics communication, VLSI design, embedded systems, data communication, signal processing, image processing and network securities. Numerous research papers are published by the faculty members in various journals of repute and prestigious conferences.

Many guest faculty members are pursuing Ph.D. and continuing their research work in universities like National Institute of Technology (NIT), Indian Institute of Technology (IIT), VIT University, UNIMAP University, Malaysia. Few of the faculty members have carried out their work in association with Defense Research and Development Organization (DRDO) and Indian Institute of Technology, Kanpur.

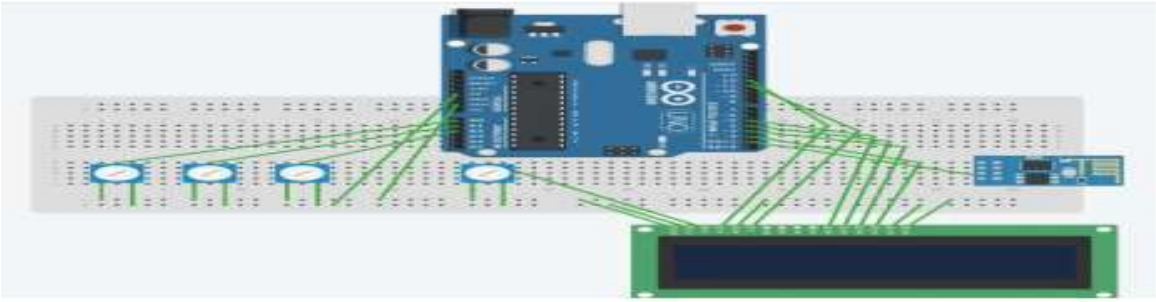
Department also has few high-end equipment to support research. A glimpse of research work is depicted below.



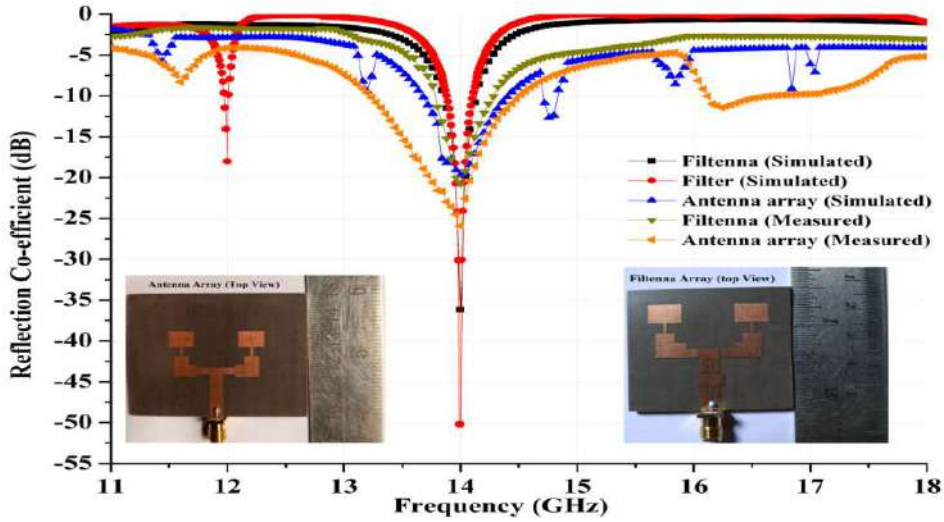
Techniques using 3D Waveguide structures for detecting the presence of Corona Virus
Published in Microsystem Technology, Springer, 2021



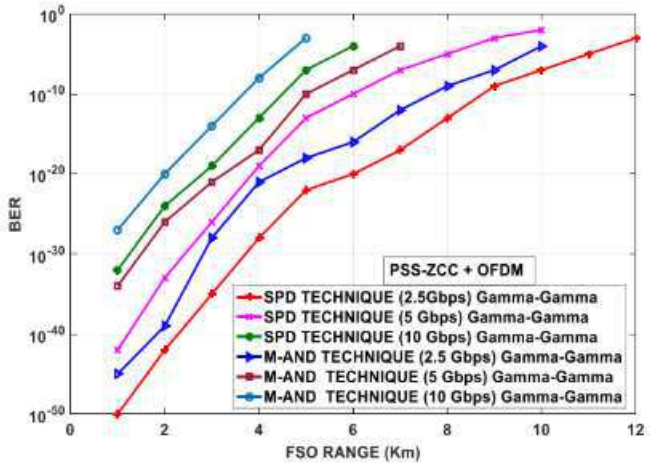
Data Interception by an Eavesdropper at a distance of 50 km in OCDMA
Published in Photonic Network Communication, Springer, 2020



Traffic congestion Detection using Arduino in Vehicular Adhoc Network Published in IEEE ANTS



High Selectivity and Sharp roll-off Filtenna Array for Ku-band Application Published in International Journal of Electronics, Taylor & Francis



BER performance of FSO range for different data rates using hybrid PSS-ZCC-OFDM model. Published in CCF Transactions on Networking, Springer

Drone Design by Mr. Paresh Kumar Pasayat, Asst. Prof., ETC Dept.

Ongoing/Completed Projects

Sl No	Investigator Name	Area/ Nature of Work	Funding Agency	Duration	Project Cost
1	Prof. Urmila Bhanja	Different Metaheuristic Approaches for solving problems in dynamic constrained optical network	AICTE	Completed 2018 Received Confirmation 2021	15,20000/-
2	Prof. Urmila Bhanja	Accident detection & Security Enhancement in VANET.	TEQIP-III	2 Years	2,82,000/-
3	Dr. Ashima Rout	Development of Secured Aware Optimal Data Routing using Multiobjective Optimizations in Cognitive Radio Ad hoc Vehicular Network	TEQIP III	2 Years	3,05,000/-
4	Dr. Ashima Rout	I_CogMining –An IoT Bsed Cognitive Mining using	TEQIP III	2 Years	3,25,000/-

		Accessing Cognitive Load			
5	Dr. Ashima Rout	Analysis of Virtual Allocation Policies towards the Solution of Security issues by using multiple data centers in Cloud Computing	TEQIP III	1 Year	1,30,000/-

Honours/Awards Received

Sl No	Faculty Name	Name of Award	Granting authority	Award for	Date of Receiving Award
1	Prof Urmila Bhanja	BIJU PATTANAIK WOMEN'S ACHIEVERS EXCELLENCE AWARD 2020	International Achievers Foundation	Research Activity	8/3/2020
2	Ms.Chinmayee Panda	Emerging Researcher Award	Einstein Academy of Technology and Management, BBSR	Research Activity	3/3/2020

STTPs/FDPs/Conferences Organized

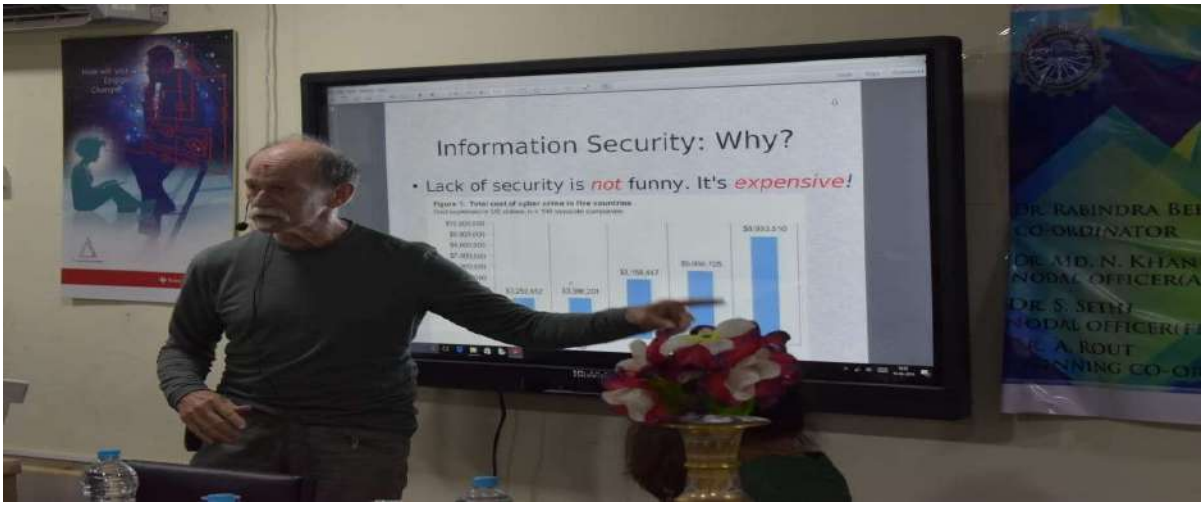
All the faculties of the Department have actively participated in the FDP program organized by the Department of Electronics & Telecommunication Engineering in the year 2020-2021.

Sl No	Organization of FDPs/STPs/ Conferences/ Seminars	Level	Date
1	TEQIP-III sponsored online faculty development programme:- Recent Advancement in Signal Processing , Machine Learning and next generation Wireless Access Techniques (RASWAN-2020)	National	11/06/2020-24/06/2020

2	TEQIP-III sponsored online faculty development programme:-Role Of Artificial Intelligence In Data science And Internet Of Things applications (RAIDIA-2020)	National	09/09/2020-22/09/2020
3	TEQIP-III sponsored online faculty development programme:- Towards 5G And Intelligent Communications (5ICs-2021)	National	08/03/2021-20/03/2021

Industrial Lectures Organized for Students

Expert talk on " PLC and SCADA" by S.K. Dogra, Deputy General Manager, E&I Nalco, Angul, Feb, 2020



Expert Talk on " Cyber Security" by Prof. Frank. B. Brokken, University of Groningen, Netherlands, 2019

Publication by Students

- Paresh Kumar Pasayat, B Manoranjan Patra, Madhusmita Das, Ayan Lodh, Barsha Baisakhi Priyadarshini, Ashis Kumar Samal, Monalisha Sethi, "Design and Implementation of 256-bits Data Security Algorithm Written in VHDL Code with Data Integrity Test", *IJAREEIE, vol.10, Issue 3, pp.843-846, 2021.*
- Paresh Kumar Pasayat, Ayan Lodh, Madhusmita Das, B Manoranjan Patra, Barsha Baisakhi Priyadarshini, Ashis Kumar Samal, Monalisha Sethi, "Design and Implementation of 256-bits Hybrid Data Security Algorithm Written in VHDL Code with Data Integrity Test", *IJAREEIE, vol.10, Issue 5, pp.1447-1451, 2021.*
- M. Rout, Nahak, S., Priyadarshinee, S., Mohapatra, P., Sa, K.D. and Dash, D., 2019, July. A deep learning approach for SAR image fusion. In *IEEE 2nd International Conference on Intelligent Computing, Instrumentation and Control Technologies (ICICICT)* (Vol. 1, pp. 335-339).
- M. Rout, Nahak S, Priyadarshinee S, Santoshroy P, Sa KD, Dash D. Multi-focus image fusion using pixel level deep learning convolutional neural network. *In IEEE International Conference on Intelligent Computing and Control Systems (ICCS) 2019 May 15 (pp. 582-586).*
- Mahapatra, Subham, Kodanda Dhar Sa, and D. Dash. "DCT Based Multifocus image fusion for wireless sensor networks." *2018 Second International Conference on Inventive Communication and Computational Technologies (ICICCT)*. IEEE, 2018.

- Behera, A., Naik, J.K., Pattanaik, S. and Nanda, R.S., D. Parida, 2019, May. Real-time environment monitoring system using ESP8266 and Thing Speak on internet of things platform. In *2019 International Conference on Intelligent Computing and Control Systems (IEEE ICCS)* (pp. 225-229).
- Bhanja U., Mohanty A., Das B., "Embedded based Real Time Traffic Congestion Detection", Vehicle Information and Communication System, Inderscience Publisher, 2018.

Publications (Journal)

1. U. Bhanja, & S. Singhdeo, Novel encryption technique for security enhancement in optical code division multiple access. *Photonic Network Communications*, Springer, *39*(3), 195-222, 2020.
2. U. Bhanja, M. Das, B. Sahu, Analysis of the effects of diversity on mobile wireless networks in a Nakagami fading channel. *Physical Communication*, Elsevier, *39*, 101031, 2020.
3. U. Bhanja, and C. Panda. "Performance analysis of hybrid SAC-OCDMA-OFDM model over free space optical communication." *CCF Transactions on Networking, Springer,* 3(3) (2020): 272-285.
4. B. K. Panda, U. Bhanja, P. K. Pattnaik, A novel energy efficient obstacle aware routing algorithm for MANET. *International Journal of Knowledge-based and Intelligent Engineering Systems*, *24*(1), pp.37-44, 2020.

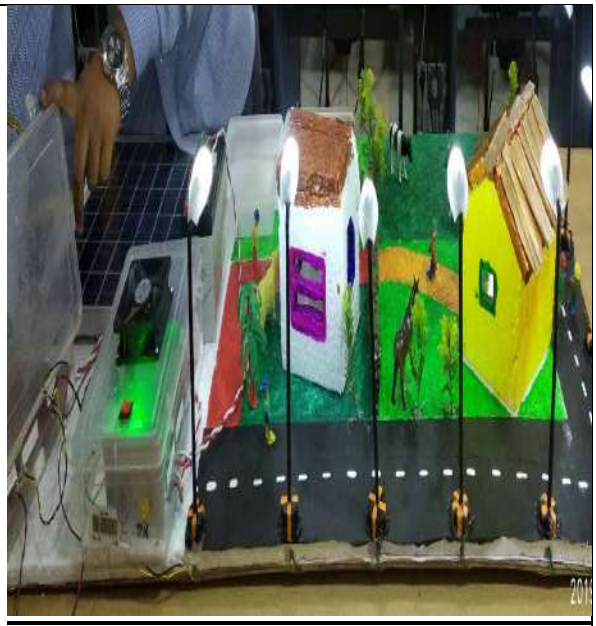
5. M Nayak, S Das, U Bhanja, MR Senapati, “Elephant herding optimization technique based neural network for cancer prediction”, *Informatics in Medicine Unlocked, Elsevier,* vol-21, 2020, 100445.
6. S. Mohanty, U. Bhanja, and Guru P. Mishra. "An Extensive Simulation Study of Gate Underlap Influence on Device Performance of Surrounding Gate In0. 53Ga0. 47As/InP Hetero Field Effect Transistor." *Nanoscience & Nanotechnology-Asia* 10, no. 2, pp. 157-165, 2020.
7. S. K. Mohanty, U. Bhanja, S. Das, K. P. Swain, A tool for testing of corona viruses using 3D photonic structure, Springer 2020.
8. C. Panda, U. Bhanja; Performance Improvement of hybrid OFDM-FSO System using Modified OFDM Receiver”, IJSCC, Vol.12, No.3, 2021, Inder Science.
9. C. Panda, U. Bhanja; Hybridization of Subcarrier Index Modulation and OFDM with MIMO System Applied to FSO; Journal of Critical Reviews, ISSN- 2394-5125, Vol 7, Issue 12, May 2020.
10. Janmejaya Rout, Haranath Kar, “New ISS Result for Lipschitz Nonlinear Interfered Digital Filters Under Various Concatenations of Quantization and Overflow” Circuit Systems and Signal Processing, Vol 40, Issue 4, pp. 1852-1867, Springer 2021.
11. Paresh Kumar Pasayat, B Manoranjan Patra, Madhusmita Das, Ayan Lodh, Barsha Baisakhi Priyadarshini, Ashis Kumar Samal, Monalisha Sethi, “Design and Implementation of 256-bits Data Security Algorithm Written in VHDL Code with Data Integrity Test”, IJAREEIE, vol.10, Issue 3, pp.843-846, 2021.
12. Paresh Kumar Pasayat, Ayan Lodh, Madhusmita Das, B Manoranjan Patra, Barsha Baisakhi Priyadarshini, Ashis Kumar Samal, Monalisha Sethi, “Design and Implementation of 256-bits Hybrid Data Security Algorithm Written in VHDL Code with Data Integrity Test”, IJAREEIE, vol.10, Issue 5, pp.1447-1451, 2021.
13. Monalisa Nayak, Soumya Das, Urmila Bhanja, “Financial Time-Series Prediction With Feature Selection Using Simplex Method Based Social Spider Optimization Algorithm”, *Indian Journal Of Computer Science And Engineering* 12 (2), 326-347, 2021
14. D.Dash, J. Valarmathi, A Probabilistic Model for Sensor Fusion Using Range-Only Measurements in Multistatic Radar, IEEE Sensors Letters, 4(6), 2020.
15. D.Dash, J. Valarmathi , Time Delay Estimation Issues for Target Detection and Transmitter Identification in Multistatic Radars, Engineering Reports Wiley, 2020.
16. D.Dash, J. Valarmathi, Estimating Target Position and Tracking using Range only measurements in Multistatic Radar, International Journal of Advanced Science and Technology, vol. 29, no. 4, pp. 4378-4389, 2020.
17. S. R. Mishra, B. C. Sahoo and Sheeja K L., High Selectivity and Sharp roll-off Filtenna Array for Ku-band Application”, *International Journal of Electronics*, 2021.
18. S. R. Mishra and Sheeja K L., “Implementation of defected ground structure for microstrip filtenna design”, *International Journal of RF and Microwave Computer-Aided Engineering*, Vol. 30 , no.1, 2020.

Publications (Conferences)

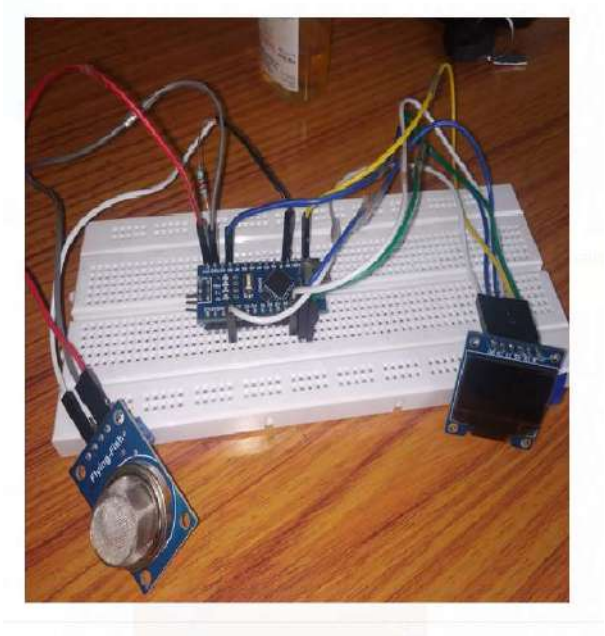
1. U. Bhanja. "An Attack Resistance Model for Trustworthiness Evaluation in VANET." In *2020 IEEE 17th India Council International Conference (INDICON)*, pp. 1-7. IEEE, 2020.
2. U. Bhanja, C. Panda "QPSK-Subcarrier Intensity modulated FSO System", ICATME, IEEE Conference, NITTR, Bhopal (Accepted).
3. U. Bhanja, "Performance analysis of an encrypted Two Dimensional Coding Technique for Optical CDMA, OWT, 2020 (published in springer book series on optical wireless communication).
4. U. Bhanja, C. Panda, Effect of code and frequency index modulation in MIMO-OFDM-FSO System, OWT, 2020 (published in springer book series on optical wireless communication).
5. C. Panda, U. Bhanja, "Effect of Code and Frequency index modulation in MIMO-OFDM-FSO System", Springer conference & Book Chapter, OWT-2020, Jaipur, India, Oct 2020.
6. C. Panda, U. Bhanja, "Effect of Adaptive Depth First Sphere Decoding scheme to MIMO-OFDM system in FSO", Taylor Francis conference & Book Chapter, https://doi.org/10.1201/9781003032465, Oct.2020.
7. C. Panda, S. Pattnaik, A. Mohanty, A. Padhy, K. P. Patra, S. Choudhury, "QPSK Modulated Li Fi in Wireless Medium", IJERT Conference, ISSN: 2278-0181, Volume 8, Issue 01, 2020.
8. D. Dash, J. Valarmathi, Radar Emitter Identification in a Multistatic System, Advances in Automation, Signal processing, Intrumentation and Control, Springer, 2020.
9. C.Panda, K. P. Patra, A. Padhy, U. Bhanja PDF Analysis of different channel models in FSO, Springer conference & Book Chapter, Lecture Notes on Data Engineering and Communications Technologies 37, 2020.
10. B. C. Sahoo, S. R. Mishra, D. Dash and K. D. Sa, "Design and Validation of an Antenna Array for Cloud Radio Access Network Applications", *IEEE International Conference for Convergence in Engineering*, Kolkata, India, 295-299, 2020.
11. Gyanabrata Sahoo, Baruna Turuk and Basudeba Behera, "Investigation and optimization for the deflections of micro-cantilever actuator with application to various piezoelectric materials and position of the layer" AIP Conference Proceedings 2341, 020012(2021); https://doi.org/10.1063/5.0049918.

Students Technical Exhibition (Diploma)

Dept. of ETC conferred the 1st position during the Technical Exhibition



Home Automation using IoT



Project on Atmospheric Pollution Measurement

Solar cell in home automation using IoT

Distinguished Alumnus

<table>
<tr>
<td> 
Krishnakant Mohapatra Ms, Tu Munich, Germany, 2021-2023</td>
<td> 
Siddheswar Nahak Mba, Iim Udaipur (2021-23)</td>
</tr>
<tr>
<td> 
SWAGAT ROUT MBA, IIM Bodh Gaya (2019-21), Crompton Greaves Consumer Electricals Limited</td>
<td> 
Tapswini Hansdah Dy. Collector at Gajpati district</td>
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<tr>
<td> 
Sudhir Kr. Sahoo - Physical Nano-Memories Signal and Information Processing Lab, PhD in IISc, Banglore</td>
<td> 
Ravindra Kumar Panda:Department Coordinator at Institute Student Companion Programme (ISCP). IIT Bombay</td>
</tr>
<tr>
<td> 
Suman Kumar Tripathy - Cloud Migration Senior Analyst at Accenture</td>
<td> 
Priyatosh Sahoo - ETL Developer and Data Warehouse Engineer at Tata Consultancy Services</td>
</tr>
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Manami Basu - Airports Authority of India

Ananya Aradhana Dash - Summer Intern at Larsen & Toubro | XLRI PGDHRM Co' 2020

Ankit Agarwal - PhD student (Fully funded), M.S. Engineering Management at Missouri University of Science and Technology, U.S.

Ms. Somalin Subhadarshini, IPS

	
Swarup Rath, INTEL, San Francisco	Divyaranjan Mallick, IIT, Roorkee, Qualcomm

H. Production Engineering

Mission: To offer high-quality education and in turn produce highly-skilled Production Engineers familiar with traditional and non-traditional manufacturing as well as Advanced Production Technologies. "To offer scope for research and produce Research-oriented Engineers capable of aiding the area with research and development. To indulge students in group-learning and projects and encourage teamwork.

Vision: To emerge as one of the finest and recognized creators of highly skilled engineers capable of aiding major and leading industries.

Courses Offered

- B. Tech in Production Engineering

Infrastructure

The department includes all the infrastructure facilities like Departmental laboratories, seminar room, classrooms, meeting room, research laboratory, faculty rooms and department office. Interactive LED display boards are used in the classrooms to make teaching and learning interesting. Faculty rooms and the Laboratories are equipped with WIFI to facilitate online teaching.

Laboratories

- CAD Lab
- Metrology & Inspection Lab
- Robotics Lab
- Theory of Machine Lab
- Metal Forming Lab
- Manufacturing Lab
- Machining Technology Lab
- Material Testing Lab
- Seminar Hall

Faculty Information

Sl.No.	Faculty Name	Qualification	Research Area
1	Dr. B.B. Choudhury	Ph.D	Robotics & FMS
2	Mr. Ashok Kumar Pradhan	M-Tech	CIM, operation management
3	Mr. Deepak Suna	M-Tech	Machining, process optimization, composite materials
4	Mr. Himanshu Sekhar Dash	M.Tech	CAD/CAM robotics, solid state Welding
5	Mr. Satya Ranjan Pal	M.Tech	Composite Materials
6	Mrs. Swarnalaxmi Sahoo	M.Tech	Composite materials
7	Mrs. Supriya Priyadarsini	M.Tech	Casting
8	Mr. Chandan Kumar	M.Tech	Industrial Engineering and Management
9	Mrs. Niwedita	M.Tech	Manufacturing Engineering
10	Mrs. Parimita panda	M.Tech	FMS Scheduling

Student's Corner

Projects

SL NO	Project Title (B.Tech)
1	Electric wheel-chair cum bed with patient monitoring system
2	The effect of mechanical properties and microstructure of AL-SI alloy with added trace amount of copper
3	Automated luggage system
4	Crankshaft operated multi ARM hacksaw
5	Design and fabrication of Aqua silencer for Automobiles
6	A project on development of prosthetic limbs
7	A project on sustainable power generation using piezoelectric footstep technique
8	A project on the smart industry
9	Analysis of machining parameters in turning operation in MQL condition.

Placement

Sl. No	Name of the student	Achievement	Year
1	Abhijith Prabhakaran	Accenture	2021
2	Amanraj Sahu	TCS	2021
3	Anup Kumar Pradhan	Tech Mahindra	2021
4	Avilash Pradhan	TCS	2021
5	Barun Kumar	Infosys	2021
6	Nikhil Agrawal	TCS	2021
7	Rakesh Kumar Behera	TCS	2021

8	Sambit Kumar Barpanda	TCS	2021
9	Subham Kumar	Tech Mahindra	2021
10	Sushree Suhana	Tech Mahindra	2021
11	Nivedita Nayak	Tech Mahindra	2021
12	P Babu Rao	Cognizant	2021
13	Sisir kumar barik	TCS	2021
14	Abhipsha Sarangi	Tech Mahindra	2020
15	Abinash Panigrahi	byjus	2020
16	Anbedita Mohanty	TCS	2020
17	Ankita Mohanty	Tech Mahindra	2020
18	Bibhudatta Palai	TCS	2020
19	Binaya kumar pradhan	BYJUS	2020
20	Binaya kumar pradhan	GRE Edge	2020
21	Diptendu Das	Globsyn	2020
22	Gourav Chandra Panigrahi	Globsyn	2020
23	lopamudra mallik	Tech Mahindra	2020
24	Niranjan Nayak	Annapurna Microfinance	2020
25	Niranjan Nayak	Globsyn	2020
26	Puja Rani Sahu	Tech Mahindra	2020
27	Shibani Satpathy	JARO	2020
28	Shuvam Bharatiya	Globsyn	2020
29	Songya Smriti Mohanty	Byju's	2020

30	Songya Smriti Mohanty	Kirloskar	2020
31	Subham Mohapatra	BYJUS	2020
32	Subham Mohapatra	GLOBSYN	2020
33	Subham Mohapatra	GRE Edge	2020
34	Subham Mohapatra	NETMEDS	2020
35	Subham Mohapatra	Tech Mahindra	2020
36	Sunaina Swain	Tata Consultancy Services	2020

Higher Studies

SL NO	Name of student enrolling into higher education	Name of institution joined	Name of programme admitted to
1	Abhipsha Sarangi	Goa Institute Of Management, Goa	MBA
2	Ankita Mohanty	IIT, Gandhinagar	M.Tech
3	Anshuman Sahu	IIM, Amritsar	MBA
4	Archana Nayak	IGIT, Sarang	M.Tech
5	Shibani Satpathy	MBA	NTPC School Of Business, Noida, Up
6	Sambit Kumar Sahoo	IIT, Gandhinagar	M.Tech

STTPs/FDPs/Conferences Organized

Sl No	Organization of FDPs/STPs/ Conferences	Level	Date
1	TEQIP-III sponsored National Webinar: Advances in Production Engineering (APE-2020)	National	14/09/2020-19/09/2020

I. Department of Architecture and Planning

Faculty Information

Sl.No.	Faculty Name	Qualification
1	Dr. Chita Ranjan Sahoo	PhD
2	Ar. Dillip Kumar Baral	M.Tech
3	Ar. Shilpi Chakraborty	M. Arch
4	Ar. Ankita Panda	B. Arch
5	Ar. Jyothsna Mundary	M. Arch
6	Ar. Amarjeet Mohanty	M.Arch
7	Ar. Tapas Ranjan Baral	M.Tech
8	Ar. Suchismita Tripathy	M.Tech

SL No	Investigator Name	Project Title	Duration	Funding Agency	Project Cost
1	Mr. Himanshu Sekhar Dash	Enhancement of interface microstructure & mechanical properties of dissimilar metal TIG welding of Austenitic Stainless steel & Inconel 617 alloy for power plant boiler.	2 year	TEQIP-III	2,20,000/-
2	Mr. Deepak Suna	Pulsed Nd-YAG Laser machining characteristics of Carbon Fibre Reinforced Plastic.	2 year	TEQIP-III	2,40,000/-

J. Department of Physics

Mission:

- To instill sprit of passion, dedication to work creatively, tolerance for views of every individuals in each member of the Department for betterment of society.
- To support the developmental activities of the institution and make the Department vibrant.
- To undertake collaborative scientific cutting edge research offering opportunities for long term interaction with academia and industry.
- To produce well trained intellectuals with innovating thinking, knowledge, skills and having academic integrity and accountability.

Vision: To built a foundation for excellence and encourage the development of Department as a Centre of Excellence striving continuously for scientific and technical research by igniting and promoting enthusiasm, interests and passion in the study of Physics.

Courses Offered

- M.Sc. in Applied Physics
- Ph.D in Physics

Infrastructure and Laboratory

To build a foundation for excellence and encourage the development of Department as a Centre of Excellence. The Department has one HOD chamber cum faculty sitting room, one laboratory for M.Sc, B.Tech and diploma students, one non teaching staff room and one store room. Department is planning to set up all the laboratories as required for M.Sc students by establishing all labs, seminar room, library and faculty sitting room.

Faculty Details

Sl. No.	Faculty Name	Qualification	Research Area
1	Prof. Md. N. Khan Professor	PhD	Small Angle X-Ray Scattering
2	Dr. Sunil Kumar Tripathy Associate Professor	PhD	Nuclear Physics, Cosmology, Relativity, Optoelectronics
3	Dr. Anup Pattanaik	PhD	Superconductivity (Theory) Semiconductor Physics (Theory)

	Asst. Professor (Contractual)		
4	Dr. Anukul Prasad Parhi Asst. Professor (Contractual)	PhD	Condensed Matter Physics (Experimental), Thin film, Photovoltaic's and Organic Electronics
5	Mrs. Dipanjali Behera Asst. Professor (Contractual)	M. Phil, PhD (Thesis Submitted)	Cosmology and relativity, Nuclear Physics
6	Mr. Nrusingh Baral Asst. Professor (Contractual	M. Phil	High Energy Physics
7	Mr. Ramakanta Sahoo Asst. Professor (Contractual)	M.Sc. (NET)	NIL

M.Sc. Project Details

Sl. No.	Name of student	Title of Project
1	Akash kumar Sahu	Nuclear Magnetic Moment
2	Chittaranjan Sahoo	Thermal Conductivity of Poor Conductors
3	Deepsikha Kar	Nuclear Magnetic Moment
4	Dinesh kumar Jena	Density dependence of nuclear symmetry energy
5	Karisma Mohanty	Core-Crust transition in Neutron Star using a finite range effective interaction
6	Monalisha Padhi	The Davydov splitting in organic small molecule blended thin film
7	Pranati Khuntia	Thermal Conductivity of Poor Conductors
8	Priyadarshini Sukla	Density dependence of nuclear symmetry energy
9	Ruchismita Sahoo	Study of electric filed effect on some selected materials used in thin film devices
10	Sachidananda Mishra	Matter Bounce Cosmology in f(R) gravity
11	Sasmita Dehury	Study of refractive index through energy gap in oxide and halide perovskite semiconductors
12	Smruti Ranjan Das	Anisotropy of penetration depth in single crystal Cu_xTiSe_2 Superconductor
13	Smruti Rekha Swain	Study of Electric field effect on the active layers of thin film devices
14	Subham kumar Chand	Compact Star Structure with a Unified Dark Fluid
15	Sunil Mishra	Core-Crust transition in Neutron Star using a finite range effective interaction

16	Swati Priya Pany	Study of refractive index through energy gap in oxide and halide perovskite semiconductors
17	Swayamsidha Sahu	Thermal Conductivity of Poor Conductors

Research Activities in Department

The department, at present, have 07 (Seven) no. of faculty members with long years of teaching experience. The department has achieved an international research reputation, with a substantial research contact across the globe. The prime focused area of research in the department include: Small Angle X-Ray Scattering studies of organic fibres, Cosmological models with dark energy candidates, Modified Theories of Gravitation, Optical materials, Nuclear Symmetry Energy and Nuclear Equation of state, Neutron Star, Thermodynamic properties of Superconductor and Aerosol Science. The research experience of the faculties amply supplements and feed into the teaching experience. The department has published more than 50 research papers in peer reviewed journals of national and international repute and two books in last five years. Every year, this department organizes National and International seminars and workshops in which many eminent persons from different institutes of repute come and interact with the students and faculty members.

Ongoing/Completed Projects

Sl. No	Investigator Name	Area/ Nature of Work	Funding Agency	Duration	Project Cost
1	Dr. Sunil Kumar Tripathy	Research project	TEQIP III	2 Year	3.00 Lakhs

STTPs/FDPs/Workshops Organized

Sl. No.	Organization of FDPs/STPs/ Conferences/ Seminars	Level	Date
1	National Workshop on Relativity, Cosmology and Astrophysics	National	January 26th -31st , 2020

2	TEQIP-III Sponsored INTERNATIONAL WEBINAR on Trends of Current Research in Physical Science	International	17th October 2020
3	International Webinar on RECENT ADVANCES IN SCIENCE AND TECHNOLOGY (RAST-2020)	International	06th – 08th November 2020
4	International Webinar on RECENT ADVANCES IN SCIENCE AND TECHNOLOGY (RAST-2021)	International	28th July 2021

Honours/Awards Received

Sl. No.	Faculty Name	Name of Award	Granting authority	Award for	Date of Receiving Award
1	Dr. Sunil Kumar Tripathy	BIJU PATTANAIK WOMEN'S ACHIEVERS EXCELLENCEAWARD 2020	International Achievers Foundation	Research Activity	8/3/2020
2	Dr. Anup Pattanaik	Emerging Researcher Award	Einstein Academy of Technology and Management, BBSR	Research Activity	3/3/2020

Publications

1. S. K. Tripathy, S. K. Pradhan, Z. Naik, D. Behera and B. Mishra, Unified Dark Fluid and Cosmic transit models in Brans Dicke theory, Physics of the Dark Universe 30, 100722 (2020).
2. B. Mishra and S. K. Tripathy, Investigating the Physical and geometrical parameters of the cosmological models with anisotropic background, Physica Scripta 95, 095004 (2020).
3. D. Behera, S. K.Tripathy**,** T. R. Routray and B. Behera, Nuclear Symmetry Energy and neutron skin thickness of 208Pb using a finite range effective interaction, Physica Scripta 95, 105301 (2020).
4. S. K. Tripathy, S.K. Pradhan, P. Parida, D. Behera, R. K. Khuntia and B. Mishra, Cosmic Transit models in an extended gravity theory, Physica Scripta, 95, 115001 (2020).
5. S. Tarai, F. Md. Esmaeli, B. Mishra and S. K. Tripathy, Magnetized cosmological model with variable deceleration parameter, International Journal of Modern Physics D 29, 2050091 (2020).

6. B. Mishra, S. K. Tripathy and S. Ray, Cosmological models in squared trace gravity, International Journal of Modern Physics D 15, 2050100 (2020).
7. B. Mishra, S. K. Tripathy and S. Tarai, Accelerating models with a hybrid scale factor in extended gravity, Journal of Astrophysics and Astronomy 42, 2 (2021).
8. S. K. Tripathy, Modelling Casimir wormholes in extended gravity, Physics of the Dark Universe 31, 100757 (2021).
9. D. Behera, S. K. Tripathy, T. R. Routray and B. Behera, Nuclear Symmetry Energy Parameters from the neutron skin thickness in ^{208}Pb and the electric dipole polarizability in ^{68}Ni, ^{120}Sn and ^{208}Pb, Physica Scripta 96, 035302 (2021).
10. B. Mishra, F. Md. Esmaeli, P. P. Ray and S. K. Tripathy, Stability Analysis of two fluid dark energy models, Physica Scripta 96, 045006 (2021).
11. G. K. Goswami, A. K. Yadav, B. Mishra and S. K. Tripathy, Modelling of Accelerating Universe with Bulk Viscous Fluid in Bianchi-V spacetime, Fortschritte der Physik (Progress of Physics) 2021, 2100007 (2021).
12. A.S. Agrawal, S. K. Tripathy and B. Mishra, Gravitational Baryogenesis Models comparison in f(R) gravity, Chinese Journal of Physics 71, 333 (2021).
13. S. K. Tripathy, B. Mishra, Saibal Ray and R. Sengupta, Bouncing Universe models in an extended gravity theory, Chinese Journal of Physics 71, 610 (2021).
14. L. Pati, B. Mishra and S. K. Tripathy, Model parameters in the context of late time cosmic acceleration in f(Q,T) gravity, Physica Scripta 96, 105003 (2021).
15. B. Mishra, A. S. Agrawal, S. K. Tripathy and S. Ray, Wormhole Solutions in f(R) gravity, International Journal of Modern Physics D 30, 2150061 (2021).
16. B. Mishra, E. Gadia and S. K. Tripathy, Dynamics of quasi de Sitter and linear combination of exponential models in extended gravity, International Journal of Geometrical Methods in Modern Physics 2150168 (2021).
17. A. S. Agrawal, L. Pati, S. K. Tripathy and B. Mishra, Matter Bounce Scenario and the dynamical aspects in f(Q,T) gravity, Physics of the Dark Universe 33, 100863 (2021).
18. P. P. Ray, S. Tarai, B. Mishra and S. K. Tripathy, Cosmological models with Big rip and Pseudo rip in extended theory of gravity, Fortschritte der Physik (Progress of Physics) 2021, 2100086 (2021).
19. S. K. Tripathy, B. Mishra, M. Khlopov and S. Ray, Cosmological models with hybrid scale factor, International Journal of Modern Physics D, Accepted for Publication (2021).
20. A Pattanaik, G Purohit, and P Nayak: Analysis of Different Anisotropic Properties of Ba $(Fe_{0.926}Co_{0.074})_2As_2$ Single Crystal. *Journal of the Korean Physical Society* 76 (11), 1014-1019, 2020.
21. A Pattanaik, G Purohit, and P Nayak: Thermodynamic anisotropy in the samarium-based pnictide single-crystal superconductor. *Applied Physics A* 126 (8), 1-7, 2020.
22. A Pattanaik, G Purohit, and P Nayak: Anisotropy of Sommerfeld coefficient in SmFeAsO1−xFx (x = 0.15) Single crystal, *Orissa Physical Society* 27, 43-48, 2020.
23. A Pattanaik, G Purohit, and P Nayak: Anisotropy of field dependent penetration depth and the Sommerfeld coefficient in the pnictide superconductor *Physica C: Superconductivity and its Applications* 576, 1353705, 2020.
24. A Pattanaik, S K Tripathy, P Naik, D K Meher: Structural and elastic properties of binary semiconductors from energy gaps *Applied Physics A* 127 (1), 1-12, 2021.

25. D. Behera, S. K. Tripathy, T. R. Routray and B. Behera, Nuclear Symmetry Energy and neutron skin thickness of 208Pb using a finite range effective interaction, Physica Scripta 95, 105301 (2020).
26. S. K. Tripathy, S.K. Pradhan, P. Parida, D. Behera, R. K. Khuntia and B. Mishra, Cosmic Transit models in an extended gravity theory, Physica Scripta, 95, 115001 (2020).
27. D. Behera, S. K. Tripathy, T. R. Routray and B. Behera, Nuclear Symmetry Energy Parameters from the neutron skin thickness in ^{208}Pb and the electric dipole polarizability in ^{68}Ni, ^{120}Sn and ^{208}Pb, Physica Scripta 96, 035302 (2021).

K. Department of Chemistry

Mission: To establish the department as a premier centre for chemistry studies and research activities in variousfields.

Vision: The department has only focus on quality teaching and research. Faculty members are always encouraged for learning, collaborations and participations in various scientific activities to broaden theirintellect and enhance the capabilities of the students.

Courses Offered

- M.Sc. in Applied Chemistry
- Ph.D in Chemistry

Infrastructure

Chemistry Department has laboratories, classrooms, research laboratory, faculty rooms and departmental office. Smart boards are used in the classrooms to make teaching and learning interesting.

Laboratories

The following labs are for B.Tech, Diploma, MSc and research scholars.

- Engineering Chemistry Lab for B.Tech and Diploma students
- PG and Research Laboratory

Faculty Information

Sl. No.	Faculty Name	Designation	Qualification	Research Area
1	Dr. B. B. Panda	Asso. Prof.	Ph.D	Physical Chemistry, Renewable Energy, Photo catalyst
2	Mrs. Allian Majhi	Asst. Prof.	M.Phil	Inorganic Chemistry
3	Mr. Ajit Kuamr Panda	Asst. Prof.	MSc	Green Chemistry
4	Mr. Rajib Lochan Sahoo	Asst. Prof.	MSc	Green Chemistry
5	Dr. Debakanta Tripathy	Asst. Prof.	PhD, Postdoc.	Metal driven Self-assembly
6	Dr. Niladri Maity	Asst. Prof.	PhD, Postdoc.	Organometallic chemistry andCatalyst
7	Dr. Satyajit Das	Asst. Prof.	PhD, Postdoc.	Bio-material and Bio-energy

Research Projects

1. Project Title: **Design and Development of Tandem Catalysts for Multistep Chemical Transformations**
Approved grant: **Rs. 1116000.00**
Funding agency: **Collaborative Research Scheme, TEQIP-III, NPIU, MHRD, India**
Time Frame: **2 Years**
Responsibility: **Dr. Niladri Maity (PI)**

2. Project Title: **Design and Fabrication of Chalcogenide Thin Films for Dye SensitizedSolar Cells**
Approved grant:**Rs. 300000.00**
Funding agency:**Institute Research Seed Money, IGIT Sarang, Odisha, India**
Time Frame:**1 Year**
Responsibility: **Dr. B B Panda (PI)**

3. Project Title: **Design and Synthesis of Pt (II) Based Macrocyclic Hosts for selectiverecognition of Aromatic Hydrocarbons**
Approved grant: **Rs. 1045000**
Funding agency: **Collaborative Research Scheme, TEQIP-III, NPIU, MHRD, India**
Time Frame: **2 Years**

Responsibility: **Dr. D. Tripathy (PI)**

M.Sc. Project Details

Sl. No.	Name of the Student	Title of the Project
1	Ansita Avilasha Nath	Synthesis and characterisation of nickel oxide
2	Biswarupa Behera	Synthesis and characterisation of cobalt oxide
3	Chikun Sahoo	Selection of natural sensitizer for dye sensitised solar cell
4	Diptimayee Pradhan	Palladium(ii) and platinum(ii) based macrocyclic hosts for Aromatic hydrocarbons and its derivatives
5	Hirabati Behera	Cis-PROTECTED PALLADIUM (II) BASED SELF-ASSEMBLED COMPLEXES
6	Hrusikesh Chichuan	Quadruple stranded helicate and cages
7	Joshmin Joshi Pradhan	Preparation of fly ash supported pd- ag bimetallic nanoparticles for efficient reduction of toxic nitrophenol in Water
8	Manisha Sahoo	Preparation of copper doped nickle oxide towards the photocalatyic degradation of methylene blue under visible Light irradiation
9	Monalisa Pradhan	Synthesis and characterization of fly ash supported pd-ag Bimetallic nano catalyst for the reduction of nitrophenols
10	Priyadarshani Sahoo	A reviewe on silver nanoparticles: properties, application and Synthesis methods.
11	Priyanka Mahato	E – waste management: indian scenario
12	Samina Sahoo	Bio-composite material for medical applications
13	Sudipta Singh	Bio-composite material for food packging
14	Sushree Sonalika Behera	Proximate analysis and ranking of a suspected sample of coal From talcher region.
15	Swarnalisa Das	Proximate analysis and ranking of a suspected coal sample From talcher region
16	Swetaparna Mishra	Isolation and characterization of caffein from waste tea
17	Swikruti Das	Green synthesis of silver nanoparticles using tagetes erecta Plant ;an eco-friendly approach

Research Activities in the Department

The faculty members of the department are actively involved in research activities. This involves fundamental and applied research. Faculties, PG students and research scholars use UG, PG and Research Lab for the activities, also collaboration with other premier institutes. The different

research areas are Solar Cell and Material science, Supramolecular chemistry, Heterogeneous catalysis, Bio-chemistry, Industrial Chemistry.

Publications

1. D. Tripahy, Amlan K. Pal, Soumya Lipsa Rath, Garry S. Hanan, Binod B. Panda, Dillip K. Chand., Synthesis, characterization and molecular docking study of Nitro (4'-2(2-pyridyl)-2,2':6',2"-terpyridyl) Palladium (II) nitrate' Inorganic Chemistry Communication, 126 (2021) 108494.
2. Electrodeposited mixed ZnS–CdS photoelectrode for natural dye-sensitized solar cells (NDSSC) B. B. Panda, P. K. Mahapatra & M. K. Ghosh Indian J Phys (2020).
3. Recent Advances in (Hetero)dimetallic Systems towards Tandem Catalysis, Patra, S.; Maity, N. Coordination Chemistry Reviews, 2021, 434, 218308 (1-28).
4. Fly Ash Supported Pd-Ag Bimetallic Nanoparticles Exhibiting Synergistic Catalytic Effect for the Reduction of Nitrophenol, Maity, N.; Sahoo, A.; Boddhula, R.; Chatterjee,S.; Patra, S.; Panda, B. B., Dalton Transactions,2020, 49, 11019-11026.
5. Fe3O4 nanoparticles functionalized GO/g-C3N4 nanocomposite: an efficient magnetic nanoadsorbent for adsorptive removal of organic pollutants. 2020 [Materials Chemistry and Physics 244, 122710]

L. Department of Mathematics

Faculty

Sl. No.	Faculty Name	Qualification	Research Area
1	Dr. Pitambar Das	PhD	Differential Equation
2	Mrs. N. Mishra	M.Sc., M. Phil	Fluid Mechanics
3	Mr. Chandra Sekhar Otta	M.Sc., M. Phil	Fluid Dynamics, Cosmology
4	Mr. Kailash Chandra Paul	M.Sc., M. Phil	Operation research, ComputationalFluid Dynamics
5	Mr. Sunil Kumar Sahu	M.Sc., M. Phil	Numerical Analysis, Relativity & Cosmology, Partial Differentiation, Operation Research
6	Dr. Bharat Keshari Swain	PhD	Fluid Dynamics, Computational Fluid Dynamics

7	Mr. Ajay Kumar Sahoo	M.Sc., M. Phil	Numerical Analysis, Partial Differential Equation
8	Mr Bikasha Parida	M.Sc., M. Phil	Fluid Dynamics, Partial DifferentialEquation
9	Mrs. Monalisa Pany	Msc	Numerical Analysis
10	Ms. Archana Pattanayak	Msc	Cosmology

M. Department of Humanities

Faculty Information

Sl. No.	Faculty Name	Designation	Qualification
1	Dr. Sarojananda Mishra	Professor	PhD
2	Mr. Debasish Nayak	Asst. Prof.	M.Phil
3	Ms. Samarpita Dash	Asst. Prof.	M.Phil
4	Mr. Sankar Moharana	Asst. Prof.	M.Phil
5	Mrs. Madhuswapna Pattnaik	Asst. Prof.	M.Phil
6	Mr. Sagar Das	Asst. Prof.	PGDM, HR
7	Ms. Kumudini Behera	Asst. Prof.	PGDM, HR

6. Faculties Assigned as Editor/Reviewer of Journals

Sl. No.	Faculty Name	Journal Name	Publisher
1	Dr. Bibhu Prasad Panigrahi	Journals of the Institutions of Engineers(India)Series B	Springer(Reviewer)

		International Journal Of Electrical Power and Energy Systems	Elsevier(Reviewer)
		International Journal of Ambient Energy	Taylor and Francis(Reviewer)
		International Transactions on Electrical Energy Systems	Wiley(Reviewer)
		Renewable Energy	Elsevier(Reviewer)
2	Dr. Rabindra Behera	IEEE Transactions On Power Systems	IEEE(Reviewer)
		Journals of the Institutions of Engineers(India)Series B	Springer(Reviewer)
3	Mr. Bibhu Prasad Ganthia	Materials Today: Proceedings	Elsevier(Reviewer)
		Journal of Engineering Science and Technology Review	EMaEEech (Reviewer)
		International Conference on Power Systems (ICPS)	IIT, Kharagpur
		1st International Symposium on Sustainable Energy and Technological Advancements	NIT, Meghalaya
		SCIREA Journal of Energy	Editor
		International Journal of Ambient Energy	Taylor & Francis (Reviewer)
		Journal of Engineering and Technological Sciences	Reviewer

4	Mr. Chinmay Kumar Nayak	Electric Power Systems Research	Elsevier (Reviewer)
		Turkish Journal Of Electrical Engineering & Computer Sciences.	Reviewer
		Artificial Intelligence Review (AIRE)	Springer (Reviewer)
		Electric Power Components and Systems	Taylor & Francis (Reviewer)
5	Prof. Urmila Bhanja	Journal of optical communication & Network	IEEE
6	Prof. Urmila Bhanja	Journal of Networks	Elsevier
7	Dr. Ashima Rout	Intelligent Systems	Springer
8	Mr.Paresh Ku. Pasayat	International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering (IJAREEIE)	Ess & Ess Research Publications
9	Ms. Monalisa Nayak	Informatics in Medicine Unlocked International Journal of Engineering Intelligent systems	Elsevier
10	Dr. Soumya Ranjan Mishra	MOTL IET Microwaves and Antenna Propagation Indonesian Journal of Electrical Engineering and Computer Science. International Journal Of RF, Microwave and Computer Aided Engineering	WILEY IET Indonesian Journal of Electrical Engineering and Computer Science. WILEY
11	Dr. Sunil Kumar	Journal of Modern Physics	Journal of Modern Physics

	Tripathy	Journal of Physics G: Nuclear and Particle Physics	IOP Science Publishing
		Advances in High Energy Physics	Hindwai
		Canadian Journal of Physics	NRC press
		Bulgarian Journal of Physics	Bulgarian Academy of Sciences
		Philosophical Magazine	Taylor and Francis
		Modern Physics Letters A	World Scientific
		Journal of Materials Science: Materials in Electronics	Springer
		Astrophysics and Space Science	Springer
		Communications in Theoretical Physics	IOP Science Publishing
		American Journal of Modern Physics	Science Publishing Group
12	Dr. Anup Pattanaik	Journal of Materials Science: Materials in Electronics	Springer
13	Dr. Niladri Maity	Catalysis Letters	Springer
		Dalton Transactions	Royal Society of Chemistry
14	Dr. Satyajit Das	Algal Research	Elsevier

7. Faculty Participation in FDPs/STTPs

Sl No.	Name of the Faculty	Name of the Programe attended	Organized by/Venue	Date of Programme
1	Dr. Bibhu Prasad Panigrahi	Faculty Development Program on "Renewable Power Generation, Control And Grid Integration" RPGCGI 2020	Department of Electrical Engineering, IGIT Sarang	10/08/2020 – 14/08/2020

2	Dr. Pranati Das	Faculty Development Program on “Renewable Power Generation, Control And Grid Integration” RPGCGI 2020	Department of Electrical Engineering, IGIT Sarang	10/08/2020 – 14/08/2020
3	Dr. Rabindra Behera	Faculty Development Program on “Renewable Power Generation, Control And Grid Integration” RPGCGI 2020	Department of Electrical Engineering, IGIT Sarang	10/08/2020 – 14/08/2020
4	Mr. Rabi SankarSubudhi	Faculty Development Program on “Renewable Power Generation, Control And Grid Integration” RPGCGI 2020	Department of Electrical Engineering, IGIT Sarang	10/08/2020 – 14/08/2020
5	Dr. Maheswar Prasad Behera	Faculty Development Program on “Renewable Power Generation, Control And Grid Integration” RPGCGI 2020	Department of Electrical Engineering, IGIT Sarang	10/08/2020 – 14/08/2020
6	Mr. Bidyadhar Biswal	Faculty Development Program on “Renewable Power Generation, Control And Grid Integration” RPGCGI 2020	Department of Electrical Engineering, IGIT Sarang	10/08/2020 – 14/08/2020
7	Mr. Brijesh Kumar	Faculty Development Program on “Renewable Power Generation, Control And Grid Integration” RPGCGI 2020	Department of Electrical Engineering, IGIT Sarang	10/08/2020 – 14/08/2020
8	Mr.Umakanta Mahanta	Faculty Development Program on “Renewable Power Generation, Control And Grid	Department of Electrical Engineering, IGIT Sarang	10/08/2020 – 14/08/2020

		Integration" RPGCGI 2020		
9	Mr. Manoj Kumar Chaudhury	Faculty Development Program on "Renewable Power Generation, Control And Grid Integration" RPGCGI 2020	Department of Electrical Engineering, IGIT Sarang	10/08/2020 – 14/08/2020
10	Mr. Kali Charan Pradhan	Faculty Development Program on "Renewable Power Generation, Control And Grid Integration" RPGCGI 2020	Department of Electrical Engineering, IGIT Sarang	10/08/2020 – 14/08/2020
11	Mr. Binay Kumar Nayak	Faculty Development Program on "Renewable Power Generation, Control And Grid Integration" RPGCGI 2020	Department of Electrical Engineering, IGIT Sarang	10/08/2020 – 14/08/2020
12	Mrs. Mohamayee Mohapatra	Faculty Development Program on "Renewable Power Generation, Control And Grid Integration" RPGCGI 2020	Department of Electrical Engineering, IGIT Sarang	10/08/2020 – 14/08/2020
13	Ms.Rosalin Pradhan	AICTE sponsored short term training program on 'Smart –grid Technologies for efficiency and active demand side management.	Department of Electrical & Electronics Engineering, New Horizon college of Engineering	04/01/2021 – 09/01/2021
		TEQIP-III Sponsored Faculty Development Programme On Role Of Artificial Intelligence In Data Science And Internet Of Things Applications	Department of Electronics & Telecommunicatio n Engineering, IGIT, Sarang	09/09/2020 – 22/09/2020

		International Workshop on Recent Advancement on Electronics and Computer Intelligence. (RAECI -2021)	Sambalpur University Institute of Information Technology	26/04/2021 – 30/04/2021
		Faculty Development Program on "Renewable Power Generation, Control And Grid Integration" RPGCGI 2020	Department of Electrical Engineering, IGIT Sarang	10/08/2020 – 14/08/2020
14	Mr.Aditya Kumar Pati	Faculty Development Program on "Renewable Power Generation, Control And Grid Integration" RPGCGI 2020	Department of Electrical Engineering, IGIT Sarang	10/08/2020 – 14/08/2020
15	Mrs.Rajashree Sahu	Faculty Development Program on "Renewable Power Generation, Control And Grid Integration" RPGCGI 2020	Department of Electrical Engineering, IGIT Sarang	10/08/2020 – 14/08/2020
16	Mr. Madhab Chandra Das	Faculty Development Program on "Renewable Power Generation, Control And Grid Integration" RPGCGI 2020	Department of Electrical Engineering, IGIT Sarang	10/08/2020 – 14/08/2020
		Safe working practices on Sub-station equipment	IEEE PES chapter in collaboration with Silicon Institute of Technology and SPARK at Bhubaneswar	13/04/2021
		National Seminar on Machine Learning for Signal & Image Processing with focus on	School of Electronics Engineering, KIIT, Bhubaneswar	08/03/2021 & 09/03/2021

		AI in Energy and Healthcare		
		Machine Learning	Tata Steel	15/05/2020
		Power System Protection	Tata Steel	27/04/2020
		TEQIP-III Sponsored Online Faculty Development Programme On Recent Advancement In Signal Processing, Machine Learning And Next Generation Wireless Access Networks (RASWAN-2020)	Department of Electronics & Telecommunication Engineering, I.G.I.T., Sarang	11/06/2020 – 24/06/2020
17	Mr.Bibhu Prasad Ganthia	Faculty Development Program on "Renewable Power Generation, Control And Grid Integration" RPGCGI 2020	Department of Electrical Engineering, IGIT Sarang	10/08/2020 – 14/08/2020
		Master Class on Power Electronics using MATLAB	Pantech Solution	2021
		Chennai Applications of Artificial Intelligence in Modern Power System	St. Joseph's College of Engineering	2020
		Advancements in Low Dimensional Nanomaterials for Various Applications	Indian Institute of Technology, Roorkee, India & IEEE Student Branch – GIET University	2020
		Internet of Things In Electrical Engineering	Department of Electrical and Electronics Engineering,	2020

			Jerusalem College of Engineering	
18	Mr.Narottam Maharana	Faculty Development Program on "Renewable Power Generation, Control And Grid Integration" RPGCGI 2020	Department of Electrical Engineering, IGIT Sarang	10/08/2020 – 14/08/2020
19	Mr.Lalitendu Sekhar Barik	Faculty Development Program on "Renewable Power Generation, Control And Grid Integration" RPGCGI 2020	Department of Electrical Engineering, IGIT Sarang	10/08/2020 – 14/08/2020
20	Mr.Priya Pritam Panda	Faculty Development Program on "Renewable Power Generation, Control And Grid Integration" RPGCGI 2020	Department of Electrical Engineering, IGIT Sarang	10/08/2020 – 14/08/2020
21	Mrs. Gyana Manjari Sahoo	Faculty Development Program on "Renewable Power Generation, Control And Grid Integration" RPGCGI 2020	Department of Electrical Engineering, IGIT Sarang	10/08/2020 – 14/08/2020
22	Ms. Binodinee Swain	Faculty Development Program on "Renewable Power Generation, Control And Grid Integration" RPGCGI 2020	Department of Electrical Engineering, IGIT Sarang	10/08/2020 – 14/08/2020
23	Ms. Abhipsa Kiran	Faculty Development Program on "Renewable Power Generation, Control And Grid Integration" RPGCGI 2020	Department of Electrical Engineering, IGIT Sarang	10/08/2020 – 14/08/2020

24	Dr.Aditi Chatterjee	Faculty Development Program on "Renewable Power Generation, Control And Grid Integration" RPGCGI 2020	Department of Electrical Engineering, IGIT Sarang	10/08/2020 – 14/08/2020
25	Mr. Subrat Kumar Biswal	Faculty Development Program on "Renewable Power Generation, Control And Grid Integration" RPGCGI 2020	Department of Electrical Engineering, IGIT Sarang	10/08/2020 – 14/08/2020
26	Mr. BiswajitSahoo	Faculty Development Program on "Renewable Power Generation, Control And Grid Integration" RPGCGI 2020	Department of Electrical Engineering, IGIT Sarang	10/08/2020 – 14/08/2020
27	Mr. Bikasha Kumar Garnayak	Faculty Development Program on "Renewable Power Generation, Control And Grid Integration" RPGCGI 2020	Department of Electrical Engineering, IGIT Sarang	10/08/2020 – 14/08/2020
28	Mr. Aparesh Prasad Biswal	Faculty Development Program on "Renewable Power Generation, Control And Grid Integration" RPGCGI 2020	Department of Electrical Engineering, IGIT Sarang	10/08/2020 – 14/08/2020
29	Mr. Chinmay Kumar Nayak	Faculty Development Program on "Renewable Power Generation, Control And Grid Integration" RPGCGI 2020	Department of Electrical Engineering, IGIT Sarang	10/08/2020 – 14/08/2020
		TEQIP-III Sponsored Online Faculty Development Programme On Recent Advancement In Signal Processing,	Department of Electronics & Telecommunicatio	11/06/2020 – 24/06/2020

		Machine Learning And Next Generation Wireless Access Networks (RASWAN-2020)	n Engineering, I.G.I.T., Sarang	
30	Mrs.Samprati Mohanty	Faculty Development Program on "Renewable Power Generation, Control And Grid Integration" RPGCGI 2020	Department of Electrical Engineering, IGIT Sarang	10/08/2020 – 14/08/2020
31	Ms. Ritambhara Pradhan	Faculty Development Program on "Renewable Power Generation, Control And Grid Integration" RPGCGI 2020	Department of Electrical Engineering, IGIT Sarang	10/08/2020 – 14/08/2020
		FDP on green technology on enhancing livelihoods	CUTM	31 may to 4 June 2021
		FDP on Emerging trends in power electronics and power system	OP JINDAL	SEP 1, 2020
		webinar on--Energy management under large scale renewable technology integration	Raajdhani Engineering college	24 Nov, 2020
32	Mr. Manoj Kumar Moharana	Faculty Development Program on "Renewable Power Generation, Control And Grid Integration" RPGCGI 2020	Department of Electrical Engineering, IGIT Sarang	10/08/2020 – 14/08/2020
		Adruino programming	APSSDC, Pantech Hyderabad	August 2021
		CACM 2021	IGIT SARANG	Feb 2021

		RAIDIA 2020	IGIT SARANG	Sep 2020
		Electrical Machine - II	IIT Kharagpur,Nptel Swayam	June 2020
		RAECE	GCE Bhawanipatna	Sep 2020
		AMGOC	VSSUT, Burla	12 Sep 2020
		RBCDSAI's International Summit on Data Science and AI	IIT Madras	June2020
		IEEE MTTS - SBC	IIT Roorkee	23 rd Sep, 2020.
		Signal & System	IIT Kanpur, Nptel Swayam	June 2020
		Control Engineering	IIT Madras,Nptel Swayam	June 2020
33	Mr.Sidhartha Kumar Samal	Faculty Development Program on "Renewable Power Generation, Control And Grid Integration" RPGCGI 2020	Department of Electrical Engineering, IGIT Sarang	10/08/2020 – 14/08/2020
34	Miss Utkalika Pradhan	Faculty Development Program on "Renewable Power Generation, Control And Grid Integration" RPGCGI 2020	Department of Electrical Engineering, IGIT Sarang	10/08/2020 – 14/08/2020
35	Dr. D.K.Behera	Faculty Development Training Programme for Faculty & Administrators	IIM Visakhapatnam	15-19 July 2019
36	Dr. R.N.Sethi	Vibration Analysis of Rotor Bearing Systems	IIT Delhi	2-6 March 2020
		Recent Advancement in Signal Processing , Machine Learning and next generation Wireless	IGIT Sarang	11th – 24th June 2020

		Access Techniques (RASWAN-2020).		
		Intellectual Property Rights(IPR)	Ujjain Engineering College	2 July 2020
		Innovations in Product Design and Sustainable Manufacturing (IPDSM-2020	GCE Kalahandi, Bhawanipatna,Odisha	05th August, 2020
		Research and Practices in Civil Engineering (RPCE-2020)	IGIT Sarang	3rd-7th August, 2020
37	Mrs. B. Singh	Advances in Materials and Processing	IGIT Sarang	24-28 Feb 2020
38	Mr. A. Padhi	Recent Trends in Supply Chain Management & E-Business	IGIT Sarang	22-27 July 2019
		Fundamental of processing properties and application of Nano materials	IGIT Sarang	16-28 Dec 2019
		Advanced Materials (Fabrication, Characterisation and Applications)	KIIT Bhubaneswar	20-25 July 2020
39	Mr. R.K.Patel	Recent Trends in Supply Chain Management & E-Business	IGIT Sarang	22-27 July 2019
		Active/Passive damping composite for structural vibration control	IIT Guwahati	6-10 Jan 2020
		Advance in Materials and Processing	IGIT Sarang	24-28 Feb 2020
		Robotics	NIT Jamshedpur	25-29 May 2020
40	Mr. G. K. Ghosh	Fundamentals of Welding Science and Technology (NPTEL)	IIT Guwahati	Jan 2020-March 2020
		MOODLE	GCE Bhawanipatna	25-30 May 2020

		Advanced Materials and Characterization	NIT Andhra Pradesh	15-19 June 2020
		Intellectual Property Rights	Ujjain Engineering College	2nd July 2020
41	Dr. A. Gupta	3D Printing and Allied Technologies	IIT Guwahati	6-10 Jan 2020
		Advances in Materials and Processing	IGIT Sarang	24-28 Feb 2020
		Steam and Gas Power Systems	NPTEL	Jan-May 2020
42	Mr. S.R.Pradhan	Advance in Materials and Processing	IGIT Sarang	24-28 Feb 2020
43	Dr Sarojananda Mishra	Simulation of Computer Networks	Department of Electronics & Communication Engineering.	22-06-2020 to 26-06-2020
44	Mr Medimi Srinivas	Simulation of Computer Networks	Department of Electronics &Communication Engineering.	22-06-2020 to 26-06-2020
45	Dr Sasmita Mishra	Simulation of Computer Networks	Department of Electronics & Communication Engineering.	22-06-2020 to 26-06-2020
46	Dr Srinivas Sethi	Simulation of Computer Networks	Department of Electronics &Communication Engineering.	22-06-2020 to 26-06-2020
47	Mr Priyabrata Sahu	Simulation of Computer Networks	Department of Electronics & Communication Engineering.	22-06-2020 to 26-06-2020
		Internet of Things (IoT)	Gudlavalleru Engineering College	7-12-2020 to 11-12-2020
		Smart Sensors Based Industrial Automation and Healthcare	P S R Engineering College	7-06-2021 to 11-06-2021

		Technology		
		Recent Advancements in Artificial Intelligence	Department of Computer Sc, Shri Vishnu Engineering College for Women	23-06-2020 to 27-06- 2020.
		MATLAB and its Applications in Engineering using Machine Learning & Deep Learning	G Pulla Reddy Engineering College, AP	13-07-2020 to 17-07-2020
		Cyber Security	Punjab Engineering College	25-05-2020 to 29-05-2020
		Advance Research Methodology and Innovative Teaching Pedagogy	Tulsiramji Gaikwad-PatilCollege of Engineering & Technology	8-06-2020 to 13-06-2020
		Block chain	Gurukul Kangri Vishwavidyalaya	14-12-2020 to 18-12-2020
		Artificial Intelligence using Python	Oriental College OfTechnology,MP	14-09-2020 to 19-09-2020
		Cryptography and Network Security	Panimalar Institute of Technology, Chennai	11-05-2020 to 15-05-2020.
		Artificial Intelligence	NIT, Warangal	22-05-2020 to 26-05-2020
		New Narrative Of NAAC	RR Institute of Advanced Studies, Bangalore	1-08-2020 to 7-08- 2020.
		Multidimensional Skillset of Current Generation of	Department of Information	14-06-2021 TO 18-06- 2021.

		Teaching Professionals	Technology	
		Statistical Applications Using SPSS	G L Education Foundation,Bangaluru	13-07-2020 TO 177-07-2020
		IT Infrastructure and Cyber Security	Oriental College of Technology, Bhopal	25-07-2020 TO 26-07-2020
		E -Content Development	Human Resource Development Centre, Gujarat University	25/06/2020 to01/07/2020
		Optimization Techniques: Recent Trends & Applications in Engineering.	Department of Mechanical Engineering	5-10-2020 TO 10-10-2020
		Image Processing and itsApplication	Poornima Institute of Engineering and Technology,Jaipur	21-09-2020 TO 26-09-2020
		Cyber security and Adversaries of Cyber security	Research and Development Cell, Bharati Vidyapeeth's College of Engineering, New Delhi	8-04-2021 TO 12-04-2021
48	Dr. Sanjay KumarPatra	RASWAN-2020	IGIT,SARANG,ODISHA	11thJune- - 24th June 2020
		RADIA-2020	IGIT,SARANG,ODISHA	9th-22nd Sept-2020
		Towards 5G and intelligent	IGIT,SARAN	8th March to 20

		communication	G,ODISHA	th March2021
		Overview of Telecommunication Network	RTTC,BSNL,Bubaeswar,Odisha	19th March to 31st March 2021
		An Introduction to Internet of Things(iot) and its applications for Smart Transparent and Immutable Ecosystem	NIET,Noida	31st Aug 2020 to05th Sept-20
		Nvidia deep learning institute fundamentals of deeplearning for Multiple data types	NVIDIA	Jul-05
		Artificial Intelligence & Machine Learning Using Python	Finland and IIT,Roorkee	18th- 27th June 2020
		BlockChain Technology and its applicationsbuilding etherium platform	NIT, Raipur	20th-24th july
		ML for Computer Vision	E & ICT Academies, India	29th June-8th July 2020
		Blockchain Technology	MHRD,India SPIU Odisha	05th October to 09th October 2020
		InternationalConference on MachineLearning, Internet of Things and Big Data	IGIT,SARANG, ODISHA	19th-20th 2020
49	Dr Dillip Kumar Swain	FDP on Recent Advancement in Signal Processing, Machine learning andNext Generation Wireless Access Networks	IGIT Sarang	19th-20th 2020
50	Dr. Niroj Pani	STTP on Scientific Computing using Python	IIT Bombay	
		Professional Development	IIM Kashipur	

		Training		
		FDP on cloud computing	NPTEL-AICTE	
		FDP on Recent Advancement in Signal Processing, Machine learning andNext Generation Wireless Access Networks	IGIT Sarang	
51	Dr Biswanath Sethi	AWS Academy Educator Training	AWS acdemy	1 week
		Cellular Automata and Secured Hardware Design	IIEST, Shibpur	1 week
		Workbench Fundamentals & TAW12 - ABAP Workbench	OSDA, Govt. odisha	2 weeks
52	Dr Sangita Pal	Workshop on Awareness Generation on Intellectual Property Rights	IGIT, Sarang	1 week
		Workshop on Outcome based accreditation for UG /PG Engineering program	IGIT, Sarang	1 week
53	Mr Sangram Keshari Nayak	Workshop on Awareness Generation on Intellectual Property Rights	IGIT, Sarang	1 week
		Workshop on Outcome based accreditation for UG /PG Engineering program	IGIT, Sarang	1 week
54	Mr Susanta Kumar Sahoo	Workshop on Awareness Generation on Intellectual Property Rights	IGIT, Sarang	1 week

		Workshop on Outcome based accreditation for UG /PG Engineering program	IGIT, Sarang	1 week
		Short term programme on Statistical Techniquesfor Business Analytics (STBA-2017)	KIIT, DU, BBSR	2weeks
		Workshop on R & D in Wireless and Mobile Communication using NetSim	IGIT, Sarang	1 week
		NGCAST-2016 Conference	IGIT, Sarang	2 weeks
		Workshop on Technical Document Writing using LaTeX	IGIT, Sarang	1 week
		Training programme on Theory of Internet& Web Page Design	NITTTR, Kolkata	2 weeks
		Workshop on Data Mining, Networking& Database Algorithms	SIET, Dhenkanal	1 week
		Workshop on Computational Intelligence	KIIT, DU, BBSR	1 week
		Training on Rational Software Architect	IBM Software Group - India/South Asia	1 week
		National Seminar on Software Engineering (NSSE-2011)	Silicon Institute of Technology, Bhubaneswar	1 week
		Faculty Training Program on Hands-on Experience on ARM	CDAC, Hyderabad	2 weeks
55	Mr Suvendu Kumar Jena	"Optimization Techniques: Recent Trends & Applications in Engineering"(STTP)	MCKV INSTITUTE OF ENGINEERING,	5th October-10th October

		Cybersecurity and Adversaries of Cybersecurity"(STTP)	Bharati vidyapeeth's college of engineering,	8/3/2021 to 12/3/2021
		" Advanced Reseach Methodology and Innovative Teaching	Tulsiramji gaikwad-Patil college of engineering	8th june2020 to 13 june 2020
		Artificial Intelligence using Python" (FDP)	CMR ENGINEERTING COLLEGE, HYDERABAD	14 SEPTEMBER 2020 TO 19 SEPTEMBER 2020
		A Deep Dive in thefield of Automation : ML and Iot"(FDP)	Bharati vidyapeeth's college of engineering,	8th july to 12th july 2021
		"Current Trends in IT 2020"(National Webinar Series)	JSPM'S RAJARSHI SHAHU COLLEGE OF ENGINEERING, PUNE	10th june to 14th june 2020
		"International Conference on Machine Learning , IoT, Big Data(ICMIB-2020)	Indira Gandhi Institute of Technology, Sarang, Odisha	19th - 20th SEPTEMBER 2020
		Simulation of Computer Networks"(FDP)	Lakireddy Bali Reddy College of Engineering	22 JUNE 2020 TO 26 JUNE 2020
		"MATLAB and its Apllications in Engineering using Machine learning & Deep Learning"(FDP)	G Pulla Reddy Engineering College	13TH JULY TO 17TH JULY2020
56	Dr Subhendu BhusanRout	Overview of Telecommunication Network	RTTC, BSNL	2 weeks
57	Mrs Anupama Sahu	Overview of Telecommunication	RTTC, BSNL	2 weeks

58	Mr Ramesh KumarSahoo	International Conference on Machine Learning, Internet of Things andBig Data	IGIT Sarang	1 week
		Nutrigenomics-What you eat is what you are	M E S College of Arts, Commerce and Science	1 week
		Current Trends in IT 2020	JSPM's Rajarshi College of Engineering,	1 week
59	MrBinaya Kumar Patra	RASWAN-2020	Dept. of ETC, IGIT, Sarang.	11-24 June (2 Week)
60	Mrs Supriya Lenka	RASWAN-2020	Dept. of ETC, IGIT, Sarang.	11-24 June (2 Week)
61	Mr Bapuji Rao	RASWAN-2020	Dept. of ETC, IGIT, Sarang.	11-24 June (2 Week)
		RAIDIA-2020	Dept. of ETC, IGIT, Sarang.	09-22 September (2 Week)
		NEW NARRATIVEOF NAAC	RR Institute of Advanced studies	01-07 August
		MATLAB and Its Applications in Engineering Using Machine Learning and Deep Learning	G Pulla Reddy Engineering College (Auto), Kurnool, AP.	13-17 July (5 Days)
		Current Trends in IT 2020	JSPM's RajarshiShahu College of Engineering	10-14 June (5 Days)
		Multidimensional Skillset of Current Generation of Teaching Professionals	PRATHYUSHA ENGINEERING COLLEGE,	14-18 June (5 Days)
62	Dr(Mrs)Dipa Das	Recent Advances in Wastewater Treatment and Recycle	SDM College of Engineering and Technology, Dharwad-02	16th -19th November, 2021

63	Dr(Mrs)Dipa Das	Advanced Approaches for sustainable Environmental management(AASEM-2021)	Marwadi University, Gujrat	20-24th sepetember 2021
64	Dr(Mrs)Dipa das	Chemical, Bio & Environmental Engineering(CHEMBIOEN-2021`)	Dr.B.R.Ambedkar National Institute of Technology,Jalandhar(Punjab)India	August 20-22, 2021
65	Mr. Rabiranjan Murmu	Future of Chemical Engg	IIT (ISM) Dhanbad	19th-21st March 2021
66	Mr. Rabiranjan Murmu	Vibration Analysis & Condition Monitoring for Rotating Machines	IGIT Sarang	5th-9th October 2020
67	Mr. Rabiranjan Murmu	Transport Phenomena in Industrial Processes	IGIT Sarang	9th-13th November 2020
68	Mr. Rabiranjan Murmu	Advanced Energy Science and Technology	IIT Indore	7th-9th December 2020
69	Dr. Brahmotri Sahoo	Transport phenomena in industrial process	IGIT Sarang	9th-13th Nov. 2020
70	Dr. Brahmotri Sahoo	Advances in Materials processing and characterisation	IGIT Sarang	2nd to 6th September 2021
71	Dr. Brahmotri Sahoo	Advances in Materials processing and characterisation	IGIT Sarang	28th Aug to 1st Sept. 2020
72	Dr. Sudip Banerjee	Basic Oil and Gas Field Development Lifecycle	Department of Petroleum Engineering, IIT(ISM) Dhanbad,	24th Aug to 26th Aug 2020

73	Dr. Sudip Banerjee	Advanced Mathematical Techniques for Engineers & Scientists (AMTES20)	Department of Chemical Engineering, NIT Rourkela	28th Sept to 30th Sept 2020
74	Dr. Sudip Banerjee	Mathematical Modeling using Maple	Coimbatore Institute of Technology Teaching Learning Centre	27th Nov. 2020
75	Prof. Urmila Bhanja	Examination Reform & Assessment	AICTE	25/4/2020 to 28/4/2020
76	Mr. Kodanda Dhar Sa	Concepts and Applications of Composite Materials (CACM-2021)	IGIT SARANG, Mechanical Engineering	2/23/2021
		Research Methodology and Document Preparation in LATEX	STCET Kolkata	8/17/2020
		Renewable Power Generation, Control and Grid Integration-2020	IGIT SARANG, Electrical Engg.	8/10/2020
		Machine/Deep Learning for Image and Video Processing Applications 2021	NIT, ROURKELA	2/24/2021
		Recent Trends on RF & its Applications	MNIT Jaipur	6/26/2020
		Computer Vision & Image Processing using Deep Learning	GCE Kalahandi	3/13/2021
77		OCNPDP	Dept. Of Electrical Engineering, NIT, Silchar	9/18/2020

	Mr. Paresh Kumar Pasayat	RAECE-2020	Dept. Of Electrical Engineering, GCE, Kalahandi	8/17/2020
		RPGCGI 2020	Dept. Of Electrical Engineering, I.G.I.T, Sarang	8/10/2020
78	Mrs. Jyotirekha Das	Exploring the cloud infrastructure with Microsoft Azure	Hindustan Institute of Technology, Coimbatore	4/7/2020
		Recent Trends in Fiber Optics and Photonic Integrated Circuits and its Applications	SRM TRP Engineering College,Tiruchirappalli	3/7/2020
79	Mr. Abnash Pujari	AI in Health Care: Recent Trends and Future Possibilities	Synergy College, Dhenkanal	6/27/2020
80	Mrs. Meghamala Samant	National Webinar on "Digital Filter & Their Application"	Synergy College, Dhenkanal	6/8/2021
81	Mr. Susanta Kumar Samal	Recent Trends on RF & its Applications	IEEE Antenna & Propagation Society(APS) Chapter and IEEE Rajasthan Subsection	6/26/2021
		Computer vision and image processing using Deep learning	GCE, Kalahandi	13/03/2021
		Recent advances in electronics and communication engineering	GCE, Kalahandi	17/08/2020
		Internet of Things (IOT) Using Amazon AWS	Finland Labs (A Unit of Revert Technology Pvt. Ltd.) In Association with National Social Summit, IIT Roorkee	15/06/2020

		Design and Simulation of Miniature antenna for IOT Applications	MVGR College of Engineering,Vizia nagaram	6/29/2020
82	Mrs. Chinmayee Panda	Machine Learning and Artificial Intelligence Techniques for Communication (MLAITC)	EATM,BBSR	23-02-2020
		Social Spider Optimization Technique	MNIT, Jaipur organized at EATM,BBSR	2/25/2020
83	Ms. Monalisha Nayak	Deep Learning and its applications	IIT,ROORKEE	5/4/2020
		Computer Vision & Image Processing using Deep Learning	GCE, Kalahandi	17.03.2021
84	Ms. Smrutirekha Prusty	Modelling, Measurement and Research trends in Microstrip Patch Antenna	Vignan's Institute of Management and Technology For Women,Telangana	7/20/2020
		IEEE Malaysia AP/MTT/EMC Joint Chapter Webinar Series	IEEE Malaysia	4/21/2021
		Advanced Antenna Design for Emerging Wireless Applications	Vidya Jyothi Institute of Technology, Hyderabad	8/1/2020
		IoT-It's Evolution,Objectives and Implementation	The Institute of Electronics and Telecommunicatio n Engineers,	8/2/2020
		Antenna Systems for Satellite, Aircraft and Ground Communications	NIT, Tiruchirappalli	8/23/2020

85	Dr. Soumya ranjan Mishra	MIMO ANTENNAS	Jabalpur Engineering College, Jabalpur	8/14/2020
86	Mr. Bikash Chandra Sahoo	Flexible and Wearable Antennas and Applications	JAIPUR	2/9/2021
		IEEE Malaysia AP/MTT/EMC Joint Chapter	Assoc. Prof. Andrés Alayón Glazunov ,MALAYSIA	4/21/2021
		Elsevier Author Workshop: Fundamentals of Research Article Writing	CENTURIAN UNIVERSITY	6/4/2021
		IEEE Malaysia AP/MTT/EMC Joint Chapter Webinar Series 9	Dr. Nacer Chahat , MALAYSIA	7/8/2021
		IEEE Malaysia AP/MTT/EMC Joint Chapter Webinar Series	Mr. Francis Leong, MALAYSIA	7/14/2021
		Making a Technical Presentation	MITS-Madanapalle, AP.	7/7/2020
		Modelling, Measurement And Research Trends In Microstrip Patch Antenna	KERALA	7/20/2020
		Advanced Antenna Design For Emerging Wireless Applications	HYDERABAD	8/1/2020
		High Frequency Applications Of Communication	Dr. Somak Bhattacharyya, Pailan College Of Technology	7/21/2020

		Basics Of SDR, Its Implementation & Applications	INDORE	7/18/2020
		Recent Trends Of Rf & Its Applications	JAIPUR	6/26/2020
87	Mr. Abinash Sahoo	IOT BASED HEALTH CARE TECHNOLOGY	O. I. S. T, Jabalpur	5/13/2021
88	Mr. Kumar Gaurav Suman	Matlab & Simulink Fundamentals	IGIT, SARANG	3/25/2021
89	Ashok Kumar Pradhan	Product Manufacturing and Analysis: Inculcation of Newer Methodologies by VSSUT Burla	VSSUT BURLA	09-09-2020 to 13-09-2020
		Advances in Production Engineering at IGIT Sarang	IGIT SARANG	14-09-2020 to 19-09-2020
		Concepts & Applications of Composite Materials at IGIT Sarang	IGIT SARANG	23-02-2021 to 27-02-2021
90	Deepak Suna	3D Printing and Allied Technologies at IIT Guwahati	IIT Guwahati	06-01-2020 - 10.01.2020
		Advances in Materials and Processing at IGIT Sarang	IGIT SARANG	24.02.2020 - 28.02.2020
		Potential Research Area in Mechnical Engineering by VITS Hyderabad	VITS Hyderabad	15.06.2020 - 20.06.2020
		Optimization Tools in Manufacturing Process by VSSUT Burla	VSSUT BURLA	08.09.2020 - 09.09.2020

		Product Manufacturing and Analysis: Inculcation of Newer Methodologies by VSSUT Burla	VSSUT BURLA	09.09.2020-13.09.2020
		Sustainable and Digital Manufacturing towards Industry 4.0 by VSSUT Burla	VSSUT BURLA	10.09.2020 - 11.09.2020
		Advances in Production Engineering at IGIT Sarang	IGIT SARANG	14.09.2020 - 19.09.2020
		Tools and Techniques for Effective Research Writing by PES-ITM Shivamogga	PES-ITM Shivamogga	07.12.2020 - 11.12.2020
91	Himanshu Sekhar Dash	3D Printing and Allied Technologies at IIT Guwahati	IIT Guwahati	06-01-2020 - 10.01.2020
		Advances in Materials and Processing at IGIT Sarang	IGIT SARANG	24.02.2020 - 28.02.2020
		Optimization Tools in Manufacturing Process by VSSUT Burla	VSSUT BURLA	08.09.2020 - 09.09.2020
		Sustainable and Digital Manufacturing towards Industry 4.0 by VSSUT Burla	VSSUT BURLA	10.09.2020 - 11.09.2020
		Advances in Production Engineering at IGIT Sarang	IGIT SARANG	14.09.2020 - 19.09.2020
		Vibration Analysis & Condition Monitoring for Rotating Machines,	IGIT SARANG	05.10.2020-09.10.2020

		Professional Development Training Programme for Faculty & Administrators of Project Institutions of TEQIP – III	IIM Visakhapatnam	11.01.2021 to 13.01.2021
		Automation and Robotics in Construction Industry (ARC-2021)	ARC-2021	15.03.2021 - 19.03.2021
92	Swarna Laxmi Sahoo	CNC Machine application in modern manufacturing process	CIPET	29.07.2020 - 31.07.2020
		Product Manufacturing and Analysis: Inculcation of Newer Methodologies	VSSUT Burla	09-09-2020 to 13-09-2020
		Advances in Production Engineering at IGIT Sarang	IGIT Sarang	14.09.2020 - 19.09.2020
		Vibration analysis and condition monitoring for rotating machine	IGIT Sarang	05.10.20- 09.10.20
		Concepts and application of composite material	IGIT Sarang	23.02.21- 27.02.21
93	Supriya Priyadrsini	CNC Machine application in modern manufacturing process	CIPET	29.07.2020 - 31.07.2020
		Product Manufacturing and Analysis: Inculcation of Newer Methodologies	VSSUT Burla	09-09-2020 to 13-09-2020
		Advances in Production Engineering at IGIT Sarang	IGIT Sarang	14.09.2020 - 19.09.2020

		Vibration analysis and condition monitoring for rotating machine	IGIT Sarang	05.10.20-09.10.20
94	Satya ranjan Pal	CNC Machine application in modern manufacturing process	CIPET	29.07.2020 - 31.07.2020
		Advances in Production Engineering at IGIT Sarang	IGIT Sarang	14.09.2020 - 19.09.2020
		Recent trends in Mechanical engineering	IGIT Sarang	01-02-2021 to 12-02-2021
95	Chandan Kumar	Advance in Materials and Processing At IGIT Sarang	IGIT Sarang	28/02/2020-28/02/2020
		Advance In Production Engineering at IGIT Sarang	IGIT Sarang	14/09/2020-19/09/202
		Induction Programme 2020 at IGIT Sarang	IGIT Sarang	10/12/2020-18/12/2020
96	Niwedita	Advance in materials and processing, IGIT	IGIT Sarang	24.02.2020-28.02.2020
		Advance in design and manufacturing engineering NIT PATNA	NIT Patna	03.08.2020-07.08.2020
		Advance in production engineering IGIT SARANG	IGIT Sarang	14.09.2020-19.09-2020
97	Dr. Sunil Kumar Tripathy	1. National Seminar on Physics and Chemistry of Novel Materials (PCNM-2020) 2. International Webinar on Recent Developments	1.Centurion University of Technology and Management, Bolangir Campus 2.BITS-Pilani, Hyderabad	1. Feb28th-29th, 2020 2. March 9-11, 2021 3. July 5th-9th, 2021 4. July 5th-15th,

		in Cosmology and Modified Gravity (RDCM-2021) 3. International Conference on Physical Interpretation of Relativity Theory 4. International Workshop on Gravitation, Cosmology and Astrophysics 5. The Modern Physics of Compact Stars and Relativistic Gravity 2021	Campus 3.Bauman Moscow State Technical University, Moscow 4.Bauman Moscow State Technical University, Moscow 5.Yerevan State University, Yerevan, Armenia	2021 5. September 27th-30th, 2021
98	Dr. Anup Pattanaik	1. International Virtual Conference on AFM-2020 2. One Week e-STTP on ACIS-2020 3. TEQIP-III Sponsored Webinar on FMET-2021 4. Webinar on AMPC-2021	1. KIIT, University Odisha 2. Engg. College, AJMER, Rajastan 3. Silicon Inst. Of Technology, Odisha 4. IGIT, Sarang	1. 26th -28th August 2020 2. 23rd – 27th Nov-2020 3. 02nd – 5th March 2021 4. 2nd – 6th Sept. 2021
99	Dr. N. Maity	Transition Metal Organometallics in Catalysis and Biology	National Programme on Technology Enhanced Learning	Jan to April 2020
		Materials Science& Nanotechnology (FDP-MSNT-2020)	B.S. Abdur Rahman Crescent Institute of Science and Technology	3rd to 17th Aug. 2020
		Strategies forSecuring Digital Content	Rungta College of Engineering and Technology	25th July 2020

		Global Challenges in Nanomaterials Research for Environmental and Healthcare Applications (NREHA-2020)	Institute of Minerals and Materials Technology (IMMT)	27th to 28th Aug 2020.
		Novel Molecules & Materials for Current Societal Needs (NMMCSN-2021)	Indira Gandhi Institute of Technology	38th jun 2020.
100	Mrs. Allian Majhi	International Webinar on Bioanalytical Chemistry	UN autonomous college os science	3rd july 2020
		Advanced Metal – Organic framework	VSSUT, Burla	25th & 26th September 2020
		Functionalized Materials; A Chemist's Perspective - 2020	OUAT	16th to 17 th Oct. 2020.
		Frontiers in Material Sciences	GM University	9th to 10th Oct 2020

8. Scocity of Physical Education

The Society of Physical Education & Recreation is a key avenue for Games and Sports activities of the students. The Society is run by the nominated/elected student Secretaries and Class Representatives. Theactivities are well planned, organised and conducted under the supervision of associated faculty membersand a physical Training Instructor. The institute boasts of having one of the largest and best multi-purpose playground of the State (Dr. M.P. Mishra Memorial Playground) having provision for a 400 mtrs. AthleticTrack, Cricket ground, Football ground, and Hockey ground. The Institute also has one Basketball Court,Flood lighted Badminton and Volleyball courts etc. The Society has been organising many District Level,University level and State level tournaments. SPER conducts the Annual Athletic Meet as well as the Inter Class Tournaments in various major games round the year. "UTSAHAN" an All Odisha Inter EngineeringCollege Sports Meet for Degree Colleges is being organised by SPER for last three years and similarly "MEGALOMANIA" The Games Festival of Engineering Schools and Polytechnics of Odisha are being conducted by the society.

Football Team

SL.NO.	NAME	BRANCH	REGD NO.	Position
1	BarunSahoo	Civil	1601105162	
2	Jeewan Kumar Taye	Chemical	1601105102	
3	Akash Kumar Mohapatra	Civil	1601105144	**ENGINEER'S CUP at CET BBSR(Feb 2020)**
4	Ajay Hasda	Civil	1601105143	
5	AkshayPattnaik	Civil	1601105145	
6	BikashMajhi	Civil	1701105117	**Participated**
7	Elias Lugun	Electrical	1701105597	
8	BishnuRajak	Chemical	1701105183	
9	RohanPratap Singh	Chemical	1701105450	
10	Abhinash Das	Civil	1801105006	
11	SujeetHembram	Civil	1801105529	
12	SoumyajyotiBehera	Civil	1801105493	
13	Anand Singh	Civil	1801105059	
14	ChiranjeevMohapatra	Metallurgy	1901105510	
15	NiharRanjanMohanty	Civil	1801105280	
16	DebendraKisku	Electrical	1901105251	

Volleyball Team

SL.NO.	NAME	BRANCH	REGD NO.	Position
1	Suman Kumar Pani	Electrical	1601105354	
2	Satyabrata Panda	Chemical	1601105115	**ENGINEER'S CUP at CET BBSR(Feb 2020)**
3	SambitTripathy	Mett	1601105496	
4	BhumananadaDehury	Mechanical	1601105377	
5	Rakesh Kumar Nayak	Mechanical	1721105167	
6	B.Gautam	Mechanical	1601105373	
7	BiswajitBehera	Electrical	1701105326	
8	DukhishyamTudu	CSEA	1801105167	**2nd Runner- Up**
9	David Mathias Bara	Electrical	1921105045	
10	Abinash Rout	Mechanical	F19004004002	
11	SoumyaRanjanSahoo	Electrical	F17004002049	

Basketball Team

SL.NO.	NAME	BRANCH	REGD NO.	Position
1	PrateekMohanty	Chemical	1601105110	

2	DebadritaSinha	Production	1601105535	ENGINEER'S CUP at CET BBSR(Feb 2020) **Participated**
3	SanjeevMajhi	Etc	1601105069	
4	AbhijithPrabhakaran	Production	1701105319	
5	Ch. PavanKalyan	Civil	1701105465	
6	James ChunangK.Marak	Civil	1801105594	
7	SwarajMund	Mechanical	1801105556	
8	AnkitNayak	Mechanical	1801105069	
9	Priyanshu Rout	Metallurgy	1901105526	
10	Aniket Jena	Mechanical	1901105396	
11	SampritBehera	CSEA	1901105206	
12	GovindaMajhi	Mechanical	1901105423	

Cricket Team

SL.NO.	NAME	BRANCH	REGD NO.	Position
1	Subrat Kumar Bisoi	Electrical	1601105353	29th ChetanDevraj Memorial East Zone Inter Technical cricket tournament Feb 2020 **Runner-Up**
2	PangaPravin Kumar	Mechanical	1601105411	
3	SubhenduSekharBehera	Mechanical	1601105448	
4	Jeeban-JyotiMohapatra	Electrical	1601105281	
5	AlokRanjanPatra	Chemical	1601105089	
6	Krishna KantaMohapatra	Etc	1601105055	
7	SatyaRanjanPatra	Electrical	1601105314	
8	YugantaBehera	Mme	1601105511	
9	Swagat Kumar Behera	Electrical	1601105342	
10	SoumyaRanjanRana	Prod	1721105080	
11	PratyushRanjanBal	Mechanical	1701105132	
12	Sisir Kumar Barik	Prod	1821105135	
13	K Mohan Rao	Chemical	1701105588	
14	Gyanendra Rout	Mme	1701105369	
15	ParthasarathiKhuntia	Chemical	1801105293	
16	AmitAnshumanPatra	Civil	1801105044	

Badminton Boys Team

SL.NO.	NAME	BRANCH	REGD NO.	Position
1	Shakti SwarupPani	Civil	1721105100	ENGINEER'S CUP at CET
2	SiddhantSkharSahu	Chemical	1801105452	

3	Aman Panda	Mechanical	1801105401	BBSR(Feb 2020) **Participated**
4	SoumyaRanjanPatra	Csea	1801105484	
5	Deepak Kumar Singh	Electrical	1901105252	

Badminton Girls Team

Sl.No.	Name	Branch	Regd No.	Position
1	Niharika Mishra	Mechanical	1601105407	Engineer's Cup At CetBbsr(Feb 2020) **Champion**
2	PriyankaPrahan	Cse	1601105491	
3	AshaktiBarik	Electrical	1601105261	
4	Shalini Dash	Civil	1701105310	
5	Apeksha Das	Etc	1921105060	

Table Tennis Team

Sl.No.	Name	Branch	Regd No.	Position
1	SidhantSubudhi	Civil	1601105224	Engineer's Cup At CetBbsr(Feb 2020) **Semifinal**
2	Subhasis Rout	ETC	1601105077	

WUSHU

Sl. No.	Name	Regd. No.	Branch	Event	Position	
1	Subham Kumar Sahoo	1601105339	Electrical	Taolu	SHAYRYA-2K19 at PMEC, BAM	**Silver**
2	Hitesh Gupta	1701105427	Mechanical	Taolu		**Silver**

KICKBOXING

Sl. No.	Name	Regd. No.	Branch	Position	
1	RajibRoshanBehera	1701105346	Mechanical	**Gold**	65 Bn. BSF Campus, WB, Nov 2019
2	Deepak Kumar Sethi	1701105349	Mechanical	**Bronze**	
3	PurabiPriyambada	1701105601	Mechanical	**Bronze**	
4	Adyasa Das	1701105459	Chemical	**Silver**	
5	PritiRanjanPatra	1801105331	Mechanical	**Silver**	