



Annual Report 2019-20

Silicon Institute of Technology
| An Autonomous Institute |
Silicon Hills, Patia, Bhubaneswar
www.silicon.ac.in

Message from the Chairman

It is gratifying to see Silicon outperforming itself each successive year by setting higher standards in the field of engineering education. With completion of 18 academic sessions, Silicon has added many commendable achievements to its cap. Along with UGC autonomy, NBA accreditation of 3 UG programs and NAAC A – grade, Silicon this year featured as one among the 7 engineering institutes from Odisha in top 200 ranks in the NIRF rankings with a rank of 179. I would like to congratulate all the faculties, staff members, students, parents, the management and all other stakeholders for silicon's new achievement this year. It is indeed the result of the hard work of all Siliconites who still aim at setting higher standards in the field of engineering studies.

It is also satisfying to see that, Silicon setting new milestones in every academic session and places us in the very upper echelon of higher educational institutes in the country. To maintain the benchmark that Silicon has set in the area of higher education, its faculty members have to constantly engage in new innovations and quality research work and to guide the new generation of engineers. In fact it's now time that we look up to the industry oriented collaborative research in different fields of engineering for contributing to the social needs.

I wish Silicon long years of service, as an Institute of excellence, to the state of Odisha and the public at large.

Joe Madiath

Vision

“To become a center of excellence in the fields of technical education and research and create responsible citizens”

Mission

“To provide the best of technical skills, professional ethics and human values in enriching the disciplines of Science, Engineering and Technology for social development and Nation building”

Profile

Silicon Institute of Technology was established in 2001 with the objective of providing value-based quality technical education. The Institute has a fully functional campus located close to Infocity where IT giants like Infosys, TCS, and Wipro have their Development Centres. The Silicon Bhubaneswar Campus has witnessed remarkable growth over the past one decade. The sprawling campus is abuzz with academic and extra-curricular activities of more than 2000 students under the guidance of nearly 133 Teaching staff members and 270 Non-teaching staff members who support them in the pursuit of academic excellence. Adding to the strength of the Silicon family is a strong network of nearly 7000 alumni. With over a decade's existence, the Institute has carved a niche for itself on the academic map of India.

Governing Body

The Governing Body consists of eminent educationists, technocrats, representatives of the affiliating University and government institutions who are known for their progressive approach and dedication to the cause of education and social development. The members are:

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|-----|---------------------------|-----------------|
| 1. | Mr. Joe Madiath | (Chairman) |
| 2. | Mr. Nitai Gaur Dhall | (Trustee) |
| 3. | Mr. Sanjeev Nayak | (Trustee) |
| 4. | Mr. Jitendra Prasad Singh | (Trustee) |
| 5. | Mr. Ramananda Mishra | (Trustee) |
| 6. | Prof. B. K. Das | (Educationist) |
| 7. | Mr. Ashok Basa | (Educationist) |
| 8. | Prof. Srikanth Sundarajan | (Educationist) |
| 9. | Prof. P. K. Mishra | (Educationist) |
| 10. | Mr. Manoj Fogla | (Trust Nominee) |
| 11. | Prof. Jaideep Talukdar | (Trust Nominee) |
| 12. | Prof. Sanjib Tokekar | (UGC Nominee) |
| 13. | Mr. S. K. Raysardar | (Govt. Nominee) |
| 14. | Dr. S. Mohanta | (BPUT Nominee) |
| 15. | Mr. Devesh Sinha | (Trust Nominee) |
| 16. | Prof Sunil Sarangi | (Educationist) |
| 17. | Prof. Saroj Kanta Misra | (Secretary GB) |

Quality Policy

We are committed to offer the best academic services to our learners through continuous innovative practices by developing a team of highly qualified and motivated Lecturers, providing state-of-the-art Laboratories and having excellent Library facilities and ensuring its utilization.

Silicon Best Practices

Over a period of 18 years, Silicon has evolved its set of best practices that have contributed to its emergence as a centre of excellence. Some of these practices include:

- Democratic and decentralized governance
- Secular campus with no religious bias
- Orientation program for newly appointed faculty members
- Online feedback from students on the performance of faculty members
- Dedicated Examination Halls with closed circuit cameras
- Quality Circle meetings for improvement of academic, social and environmental issues
- Orientation program for new entrants and parents meet every year
- Seminars by senior faculty members and industry experts
- Training of students for placement examination and interview
- Yoga as a compulsory subject for all students
- Institution e-mail ID for all staff members
- Special classes for academically weak students
- Peer teaching in different subjects by final year students
- Chamber consultancy/assistance available to students
- Standard guidelines for faculty members to prepare lesson plans and course handouts
- Data Management System on ERP to send lecture notes and study material to students
- In-house projects under the guidance of faculty members
- Annual Function and Tech Fest for all round development of the students
- Students' Council to manage students' affairs, their betterment, and also social causes
- Institution of the Best Student of the Year Award
- Art of Living Happiness Program for faculty members at regular intervals
- Swachh Bharat Abhiyaan by students and faculty members across the city
- Dedicated in-house counseling cell for mental health wellness

Highlights

- The institution has a campus area of 18.113 acres and a built-up area of around 356059 sq. ft., which is well maintained and provides an overall conducive academic environment. The Institute has come up with an additional built-up area of 1,15,500 sq. ft. which would augment the existing facilities at the Institute such as library, examination halls, computer laboratories, classrooms and administrative offices.

- The Institute has an Auditorium with a capacity of 350 seats and features a state-of-the-art audio visual system for conferences, lectures, movie shows and theater performances.
- The Institute has a library housed in a large hall of 17000 sq. ft. and is the centre of intellectual activities. It has well over 60,800+ books and subscribes to many international journals. It comprises with a reading room which can accommodate 450 users at a time, special cubicles for focused study, and discussion rooms for collaborative study.
- All the buildings in the campus have Wifi connectivity providing 100 Mbps with Sify Technologies Ltd as the service partner for carrying out academic and administrative processes.
- The Institute has a Skylab, an outdoor Wifi Zone for students with seating arrangements around a picturesque fountain.
- The Institute makes use of an ERP system to manage its academic and administrative processes. This includes processes like class attendance, uploading study material, exam sitting plan, SMS to parents, library search, log in and log out for staff members, processing of leaves etc.
- All classrooms have LCD Projectors to facilitate the teaching-learning process.
- Conferences, Seminars, Workshops and Group Discussions are conducted regularly in the Seminar Halls, the Remote Centre and the new Lecture Theatres.
- The Campus has its own sports ground for different outdoor games like football, cricket and volley ball, along with dedicated basket ball and badminton courts.
- There is separate facility for indoor games like Table Tennis, Carrom and Chess.
- The Campus has Yoga Centre and Multi-Gym facility for students and staff members.
- The Campus has separate hostels for boys and girls which can accommodate 1423 residents in the campus. The girls' hostel can accommodate 550 residents and the boys' hostel can accommodate 873 residents. All the three hostels are fitted with modern amenities.
- The Guest House facility is available for visiting parents and faculty members.
- The Institute provides residence facility to faculty members.
- A host of centralized facilities like canteen, parking, in-campus medical facility, dispensary and transport services are provided to all students and staff members.

Affiliation & Approval

The Institute is affiliated to the Biju Patnaik University of Technology, Odisha and offers 09 different programs of study in the field of Engineering & Technology. All the programs are approved by the All India Council for Technical Education (AICTE) MHRD, Government of India, and also recognized by DTE&T, Government of Odisha. The Institute is recognized by the University Grants Commission under section 2(f) of UGC Act. The institute is running as an Autonomous Institute since 2018-19 AY and three of the UG programs: CSE, ECE and EEE are accredited by NBA.

UG Programs

Sl. No.	Program Name	Intake
1	Computer Science & Engineering	180
2	Electrical & Electronics Engineering	120
3	Electronics & Communication Engineering	180
4	Electronics & Instrumentation Engineering	60

PG Programs

Sl. No.	Program Name	Intake
1	Master in Computer Application	60
2	M.Tech. in Electronics & Communication Engineering	9
3	M.Tech. in Computer Science & Engineering	9
4	M.Tech. in Power System Engineering	9

Admissions Process

The admissions process is done through the centralized counseling of Odisha Joint Entrance Examination (OJEE) in accordance with the norms/guidelines prescribed by the state government for this purpose. The Institute provides detailed information about the admission process through its prospectus and also through its website. The Institute also adheres to the reservation policies of the state government and the regulations in this regard to ensure equity and access to different sections of the society. As the Institute attracts a large number of students from other states, the reservation policies as applicable in this case are also adhered to.

- The Institute conducts counseling for aspiring students in all important town and cities of the state and at major urban cities in the nearby states for pursuing professional courses in Engineering and MCA.
- The students seeking admission in the Institute usually include the top 25% students appearing for the JEE Main Exams. At the same time, the Institute also has the distinction of being the preferred choice of students during the central counseling, making an early exit from the process as the seats get filled.
- The Institute enjoys the unique distinction of having the highest percentage of admission for UG programs among the private affiliated colleges of the state.
- The Institute also admits 20% seats to Diploma holders who join the B. Tech. program through Lateral Entry.

Admission Statistics: 2019-20

Program	Branch	Intake	Regular	Lateral	Total	Regular		Lateral	
						Male	Female	Male	Female
B.Tech	CSE	180	182	13	195	133	49	6	7
	ECE	180	187	8	195	126	61	6	2

	EEE	120	119	10	129	89	30	8	2
	E&IE	60	35	1	36	22	13	1	0
M.Tech	CSE	9	3	0	3	0	3	0	0
	EEE	9	1	0	1	1	0	0	0
MCA	MCA	60	31	35	66	14	17	21	14
	Total	618	558	67	625	387	171	42	25

Catering to Diverse Needs

- The Institute offers Remedial Courses to the students upon joining so that they can adjust to the academic environment of Silicon with ease. This offering is unique to Silicon being a front-ranking Institute with novel academic practices. The senior residents in the hostels also provide the necessary support by conducting peer teaching sessions during the initial semesters. The Institute also plays the role of a facilitator here by providing the necessary infrastructural support for peer learning.
- The Institute conducts a comprehensive Orientation Program for newly admitted students in order to help them prepare for the course of study in different branches.
- Based on the data provided by students regarding their academic performance at the school and college levels, and also the assessment carried out by our team of teachers and mentors, an identification of the slow and weak learners is done, identifying in the process the advanced learners too. Accordingly, the slow and weak learners are given learning support in terms of extra classes, remedial classes etc. by the teachers and the mentors as required so that they can improve and learn in a better way. Faculty members also give more attention to such students as and when required.
- Tutorials are also a part of the set of academic instruments used at the Institute in order to ensure effective learning on part of the student.
- The Institute also follows a system for mentoring students with the help of a Faculty Advisor. A group of 30 students are assigned to a faculty member who interacts with them on a regular basis and helps them solve their academic as well as personal problems. The Faculty Advisor also advises them with regard to co-curricular and extra-curricular activities, thus becoming a friend, philosopher and guide to the students, helping them in shaping their future in a responsible manner.

Scholarships at Silicon

The Institute received a large number of applications for scholarship during the academic year 2018-19 and awards were made under the categories: Medhabruti –Fresh, Medhabruti-Renewal, Preranna-Scholarship, etc.

Student Support & Progression

- The Institute provides a ragging free atmosphere to the students.

- The Institute has provision for lateral entry admission in the 3rd semester. The students admitted through the lateral entry scheme are provided proper academic support and guidance so that they can quickly adapt to Silicon's qualitative academic culture.
- The performance of students during internals and University exams is generally good which gets demonstrated by the high marks they secure, resulting in good CGPAs. On an average, the student progression varies from 90 to 95 % and most of them are selected by reputed companies during the campus placement. The dropout rate at the Institute is negligible.
- The Institute has ample provision for scholarship and other forms of financial assistance which is given to meritorious and deserving students.
- The Institute encourages students to participate in a large number of inter-collegiate competitions in curricular as well as extra-curricular fields. Students have represented the Institute in many such events and won a large number of prizes in recognition of their talent.
- The Institute also encourages students to appear for exams such as GATE, IES, CAT, XAT, GRE, GMAT and TOEFL. Nearly 50-60% students in the Institute go in for these exams and the Institute supports them through coaching/testing facilities for such exams by arranging suitable resource persons. Such efforts have been widely appreciated by students and the impact is seen in terms of the high grades scored by students and also their qualifying these exams.

Library Resources

The teaching learning processes and research activities are supported by the different facilities and services offered by the library at the Institute. In addition to borrowing, reprographic and printing facilities are also available to all the users. During AY 2019-20, the library resources were augmented by acquiring 547 new titles and 757 volumes making a total resource repository of 9572 titles and 38769 volumes. There are 34224 titles of E-books under Proquest e-book central subscription. The library also provides non-book materials like CDs, DVDs and e-journals as well and subscribes to more than 27 journals and 44 magazines. It subscribes to different e-journals published by IEEE (ASPP + POP), Elsevier (Science Direct) and Springer in different fields of Social & Engineering Sciences. The total subscription to e resources of library includes 935 journals and 2111 proceedings.

Academic Cycle

There are a number of programs which run concurrently at the Institute, depending on the academic calendar of the affiliating University. This leads to the formation of an academic cycle which includes specified number of teaching days. The number of teaching days, excluding University examinations days, holidays and suspended classes for the different semesters, odd and even during 2019-20 are as follows:

Odd Semester

1st Semester - 70 Days

3rd Semester - 77 Days

5th Semester - 78 Days

7th Semester - 85 Days

Even Semester

2nd Semester - 73 Days

4th Semester - 73 Days

6th Semester - 63 Days

8th Semester - 63 Days

Academic Performance

Program	Year	Branch	Appeared	Passed	Failed	%Success
B. Tech.	2016-2020	AEI	56	51	5	91.07
		CSE	120	105	15	87.50
		EEE	113	88	25	77.88
		ETC	183	163	20	89.07
		IT	54	49	5	90.74
	2015-2019	AEI	47	33	14	70.21
		CSE	116	95	21	81.90
		EEE	121	81	40	66.94
		ETC	169	127	42	75.15
		IT	53	42	11	79.25
	2014-2018	AEI	35	26	9	74.29
		CSE	97	79	18	81.44
		EEE	112	78	34	69.64
		ETC	150	115	35	76.67
		IT	47	24	23	51.06
	2013-2017	AEI	54	42	12	77.78
		CSE	103	83	20	80.58
		EEE	116	86	30	74.13
		ETC	164	136	28	82.92
		IT	50	40	10	80.00
	2012-2016	AEI	55	43	12	78.18
		CSE	113	86	27	76.11
		EEE	141	88	53	62.41
		ETC	168	134	35	79.76
		IT	45	35	10	77.78
MCA	2017-2020	MCA	50	42	8	84.00
	2016-2019	MCA	51	41	10	80.39
	2015-2018	MCA	32	26	6	81.25
	2014-2017	MCA	26	16	10	61.53
	2013-2016	MCA	33	17	16	51.52

Teaching - Learning - Evaluation Process

- The Institute follows a non-negotiable Academic Calendar for all its academic processes. The Institute has the distinction of having one of the best Teaching, Learning and Evaluation processes among the engineering institutes in the state.

- The schedule of academic and extra-curricular activities is prepared well in advance by all the departments so that the activities and events can be effectively organized.
- The teaching learning processes at the Institute are student-centered. The methodologies used include integrated learning, self-learning and ICT based learning.
- The detailed progress records of students with regard to attendance, learning and evaluation are maintained by their respective faculty advisors who regularly monitor the students' performance and advise them on how they can improve in different areas.
- The Institute has a dedicated air-conditioned e-evaluation centre to facilitate e-evaluation of answer scripts of semester-end BPUT examinations.

Research, Consultancy & Extension

- Faculty members are provided academic and financial support to take up research projects independently as well as in collaboration with industry.
- Adequate budgetary provisions are made to strengthen research facilities and infrastructures upon the recommendations of the Research Advisory Committee.
- Students of the UG/ PG programs are assigned with research based project works.
- Consultancy for government bodies, public and private sector enterprises is taken up from time to time.
- The Institute organizes a number of seminars on technical and specialized themes which are based on the research undertaken by faculty members and students.
- The Student Subject Committees also organize seminars and talks in different areas to promote a culture of research and extension services.
- The Institute has collaborated with Infosys and Wipro to enhance its research and consultancy output and is also in the process of collaborating with local industries for this purpose.

Teacher Quality

- Faculty members are selected as per the guidelines of AICTE and UGC, through open advertisement on an all India basis. The Selection Committee for such appointments is constituted in accordance with AICTE/UGC norms.
- Out of 133 faculty members of the Institute, 64 hold Ph. D. Degree. Further, 04 have submitted their thesis and more than 35 faculties are continuing with their Ph.D. research under various universities.

Professors	17
Associate Professors	27
Asst. Professors	89
Total	133

- The faculty student ratio at the Institute is maintained at 1:16, as per the students' strength.

- All faculty members are regular and permanent employees. AICTE guidelines are strictly adhered to while assigning faculty workload.
- The Institute is committed to excellence in teaching, research and scholarship and actively facilitates professional development of faculty by following a transparent policy mentioned in its Service Condition Manual. These policy guidelines are upgraded regularly, depending on requirement.
- The Institute not only facilitates professional development of its faculty members through the liberal policy of study leave, but also through financial assistance and rewards.
- The Institute provides financial support to faculty members for making presentations in national and international conferences, seminars, workshops and to participate in FDPs, QIPs etc. In-house FDPs are also regularly held.
- The Institute provides financial support to faculty members for membership in professional bodies/organizations and learning societies of repute.

Faculty Excellence

To offer quality technical education to students, the Institute emphasises a great deal on the continuous update and enhancement of knowledge and skills of the faculty and staff members. This is best reflected in the Institute's policy to encourage faculty and staff members to pursue higher studies and acquire qualifications like Ph. D. and D. Sc. by allowing them study leave along with financial support. During the AY 2019-20, the following faculty members were continuing their research under different universities while on study Leave.

Name	Program of Study (Ph.D/Post Doc)	Institution
Utpal Kumar Das	PhD	IIT, Kharagpur
Sangeeta Bagha	PhD	CSIR-IMMT, Bhubaneswar
T. Dinesh Varma	PhD	IIT, Kharagpur
Debasis Nayak	Post Doctoral Research	University of Texas, USA

Faculty Members Awarded with Ph. D. Degree

Sl. No.	Name/ Designation /Dept.	Thesis Title	Date of Award	Awarding University/ Institution
1	Asif Uddin Khan (Assistant Professor, CSE)	QOS Provisioning and Achieving Security in Next Generation Wireless Networks and Cloud Computing	15 th July 2019	Utkal University, Bhubaneswar
2	Tapas Kumar Maji (Assistant Professor, EEE)	Priority based multi-phase phasor measurement unit placement using soft computing techniques for smart grid implementation	31 st July 2019	NIT, Durgapur

Sl. No.	Name/ Designation /Dept.	Thesis Title	Date of Award	Awarding University/ Institution
3	Pamela Chaudhury (Assistant Professor, CSE)	Assessment of Academic Performance of Students using Classification and Feature Analysis Techniques	19 th August 2019	KIIT Deemed to be University, Bhubaneswar
4	Suchismita Rout (Assistant Professor, CSE)	Energy-Aware Routing Algorithms in Software Defined Networks	6 th September 2019	KIIT Deemed to be University, Bhubaneswar
5	Jasaswi Prasad Mohanty (Sr. Assistant Professor, CSE)	Construction and maintenance of Connected Dominating Set as Virtual Backbone in Wireless Network	20 th January 2020	IIT, Kharagpur
6	Biranchi Narayan Rath (Assistant Professor, EIE)	Robust and adaptive control algorithms for autonomous underwater vehicle	13 th March 2020	NIT, Rourkela
7	Sanghamitra Das (Assistant Professor, ECE)	Design and Simulation of Bandgap Engineered MOSFETs	11 th May 2020	SOA(DT) University, Bhubaneswar
8	Biswajit Baral (Sr. Assistant Professor, ECE)	Performance Investigation of Advanced Nano Scale Devices : An Analytical Modeling and Simulation Study	20 th June 2020	MAKAUT, Kolkata, WB
9	Bikram Keshari Mishra (Sr. Assistant Professor, CSE)	A Comprehensive Analysis and Design of Various Data Clustering Algorithm	27 th June 2020	VSSUT, Burla

Faculty Members Submitted Ph.D. Thesis

Sl. No.	Name of the Faculty	Thesis Title	Date of Submission	University/Institution
1	Monorama Swain (Sr. Assistant Professor, ECE)	Automatic Classification of Discrete Emotions in various Dialects of Odia Speech	10 th December 2019	BPUT, Rourkela
2	Judhisthir Dash (Associate Professor, ECE)	Some studies on optimal filter design using swarm intelligence techniques	6 th January 2020	Jadavpur University
3	Samaleswari Prasad Nayak (Assistant Professor, CSE)	Real-Time Healthcare with Cloud-Based Wireless Sensor Network	18 th January 2020	Utkal University, Bhubaneswar
4	Kasturi Dhal (Assistant Professor, CSE)	Some Access Control Mechanism for Data Sharing in Cloud Computing Environment	15 th May 2020	KIIT Deemed to be University, Bhubaneswar

Publications:

Journal Publications: Scopus Indexed

1. T. P. Dash, J. Jena P. E. Amami, **Jayashree Das**, D. K. Mishra, V. V. Srinivasu, D. R. Sahu, B. K. Roul, "Cr doped ZnO: Investigation of magnetic behaviour through SQUID and ESR Studies", *Physica B: Condensed Matter*, Elsevier, Vol. 572, No. 1, pp. 60-65, July 2019
2. Abhijeet Shrivastavaa, **Ajaya Kumar Tripathy**, Pronob Kumar Dalal, "A SVM-based classification approach for obsessive compulsive disorder by oxidative stress biomarkers", *Journal of Computational Science*, Elsevier, Vol. 36, Article No. 101023, July, 2019
3. Sasmita Mishra, **Sudarsan Padhy**, "An efficient portfolio construction model using stock price predicted by support vector regression", *The North American Journal of Economics and Finance*, Elsevier, Vol. 50, Article 101027, July, 2019
4. **Soumya Priyadarsini Panda**, Varun Behera, Alloran Pradhan, and Abhisekh Mohanty, "A Rule-based Information Extraction System", *International Journal of Innovative Technology and Exploring Engineering*, Vol. 8, No. 9, pp. 1613-1617, July, 2019
5. **Annapurna Mishra**, Satchidananda Dehuri, "A Novel Hybrid FLANN-PSO Technique for Real time Fingerprint Classification", *Medico Legal Update*, Vol. 19, No. 2, pp. 740-746, August, 2019
6. **Pradyumna Kumar Tripathy**, Ranjan Kumar Dash, Chitta Ranjan Tripathy, "A New Cost Effective and Reliable Interconnection Topology for Parallel Computing Systems", *International Journal of Engineering and Advanced Technology (IJEAT)*, Vol. 8, No. 6, pp. 1186-1195, August, 2019
7. **Bikram Keshari Mishra**, Amiya Kumar Rath, **Pradyumna Kumar Tripathy**, "Detection of Fungal Contagion in Food Items Using Enhanced Image Segmentation", *International Journal of Engineering and Advanced Technology (IJEAT)*, Vol. 8, No. 6, pp. 1748-1757, August, 2019
8. **Judhisthir Dash**, Bivas Dam, Rajkishore Swain, "Improved firefly algorithm based optimal design of special signal blocking IIR filters", *Measurement*, Elsevier, Vol. 149, Article-106986, August, 2019
9. **Sanjit Kumar Swain**, **Satish Kumar Das** and Sarosij Adak, "Study of Linearity Performance of Graded Channel Gate Stacks Double Gate MOSFET with Respect to High-K Oxide Thickness", *Silicon*, Springer, pp.1-8, August, 2019
10. Guru P. Mishra, **Amiya Bhusana Sahoo**, Smeeta Hota, Biswa B. Mangaraj, "Direct and electromagnetically coupled compact microstrip antenna design with modified fractal DGS", *International journal of RF and Microwave Computer-Aided Engineering*, Wiley, Vol. 29, No. 10, September, 2019
11. Suprava Dey, J R Jena, E Mohapatra, Taraprasanna Dash, **Sanghamitra Das** and C K Maiti, "Design and simulation of vertically-stacked nanowire transistors at 3nm technology nodes", *Physica Scripta*, Vol. 95, No. 10, September, 2019
12. Debashreet Das, Chitta Ranjan Tripathy, **Pradyumna Kumar Tripathy**, Manas Ranjan Kabat, and Avinash Sharma, "Optimal Design of Computational Grids Topology", *Journal of*

Computational and Theoretical Nanoscience, Vol. 16, No. 9, pp. 3754-3758, September, 2019

13. **Amiya Bhusana Sahoo**, Guru Prasad Mishra and Biswa B. Mangaraj, "Optimal Design of Compact Dual-band Slot Antenna Using Particle Swarm Optimization for WLAN and WiMAX Applications", Recent Advances in Electrical & Electronic Engineering, Vol. 12, No. 5, pp. 425-431, Oct, 2019
14. **Sanjit Kumar Swain, Sudhansu Mohan Biswal, Satish Kumar Das**, Sarosij Adak and **Biswajit Baral**, "Performance Comparison of InAs Based DG-MOSFET with Respect to SiO₂ and Gate Stack Configuration", Nanoscience & Nanotechnology, Vol. 9, October, 2019
15. **Annapurna Mishra**, and Satchidananda Dehuri, "Real-time online fingerprint image classification using adaptive hybrid techniques", International Journal of Electrical & Computer Engineering, Vol. 9, No. 5, October, 2019
16. **Debi Prasad Datta**, A. Chettah, Arpan Maiti, B. Satpati & P. K. Sahoo, "Ultraviolet and Infrared luminescent Au-rich nanostructure growth in SiO₂ by burrowing and inverse Oswald ripening", Scientific Reports, Vol. 9, Article No-14978, October, 2019
17. Babita Panda, Arjyadhara Pradhan, Bhagabat Panda, **Nivedita Pati**, Chitrakleha Jena, "Design and Implementation of PV Z source Inverter topology", International Journal of Innovative Technology and Exploring Engineering (IJITEE), Vol. 9, No. 1, pp. 4391-4395, November, 2019
18. Sarat Chandra Nayak, **Bijan Bihari Misra**, "A chemical-reaction-optimization-based neuro-fuzzy hybrid network for stock closing price prediction", Financial Innovation, Springer, Vol. 5, No.1, Article No. 38, November, 2019
19. Santosh Kumar Sahoo, **Asif Uddin Khan**, Ajit Kumar Nayak, "Efficient Task and Data Scheduling Policy for Vehicular Fog Computing Based on Link Weight", International Journal of Recent Technology and Engineering, Vol. 8, No. 4, pp. 10693- 10697, November, 2019
20. **Manoranjan Behera**, S.K. Biswal, Bhabani S. Panda and Mohamed A. Ahemad, "Study of Optical, Structural, Thermal and Dielectric Properties of Poly (vinylidene difluoride)/ Cuprous Oxide Polymer Nanocomposites", Asian Journal of Chemistry, Vol. 32, No. 1, pp. 106-110, November, 2019
21. J. Shimoyama, **Jayashree Das**, H.Ogino, U.O.Aigbe, V.V.Srinivasu, "Novel normal-state low field microwave absorption in SmFeAsO_{1-x}F_x iron particle superconductors", Solid State Communications, Vol. 307, Article No-113800, November, 2019
22. **Judhisthir Dash**, Bivas Dam, Rajkishore Swain, "Design and implementation of sharp edge FIR filters using hybrid differential evolution particle swarm optimization", International Journal of Electronics and Communications, Elsevier, Vol. 114, pp. 1-16, November, 2019
23. **Sanghamitra Das**, Tara Prasanna Dash, Suprava Dey, Chinmay Kumar Maiti, "Strain-Engineering in Nanowire Field-Effect Transistors at 3nm Technology Node", Test Engineering and Management, Vol. 82, pp. 2384 – 2390, January, 2020
24. Tara Prasanna Dash, Suprava Dey, **Sanghamitra Das**, Eleena Mohapatra, Jhansirani Jena, Chinmay Kumar Maiti, "Strain-Engineering in Nanowire Field-Effect Transistors at 3nm

- Technology Node”, *Physica E Low-dimensional Systems and Nanostructures*, Elsevier, pp. 113964, January, 2020
25. **Tapas Kumar Maji**, Parimal Acharjee, “Operational-based techno-economic PMU installation approach using grey wolf optimisation algorithm (GWOA)”, *IET generation, transmission and distribution*, Vol. 14, No. 1, pp. 70-78, January, 2020
 26. Bright Keswani, **Ambarish G. Mohapatra**, Poonam Keswani, Ashish Khanna, Deepak Gupta, Joel J P C Rodrigues, “Improving Weather Dependent Zone Specific Irrigation Control Scheme in IoT and BigData Enabled Self Driven Precision Agriculture Mechanism”, *Enterprise Information Systems*, pp. 1-22, January, 2020
 27. Indranil Som, **Santunu Sarangi**, T K Bhattacharyya, “A 7.1-GHz 0.7-mW Programmable Counter with Fast EOC Generation in 65-nm CMOS”, *IEEE Transactions on Circuits and Systems II: Express Briefs*, pp. 1-5, January, 2020
 28. Asit Subudhi, **Manasa Dash**, Sukanta Sabut, "Automated segmentation and classification of brain stroke using expectation-maximization and random forest classifier", *Biocybernetics and Biomedical Engineering*, Elsevier, Vol. 40, No. 1, pp. 277-289, 2020
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 31. **Kasturi Dhal**, **Satyananda Champati Rai**, Prasant Kumar Pattnaik, “LIKC: A Liberty of Encryption and Decryption through Imploration from K-Cloud Servers”, *Journal of King Saud University - Computer and Information Sciences*, Elsevier, February, 2020 (DOI: 10.1016/j.jksuci.2020.01.011)
 32. **Chittaranjan Behera**, Radhanath Rath, **Prayag Prasad Mishra**, “Oscillation for Super Linear/Linear Second Order Neutral Difference Equations with Variable Several Delays”, *International Journal of Mathematical, Engineering and Management Sciences*, Vol. 5, No. 4, pp. 663-681, March, 2020
 33. Santanu Sahoo, Asit Subudhi, **Manasa Dash**, Sukanta Sabut, “Automatic Classification of Cardiac Arrhythmias Based on Hybrid Features and Decision Tree Algorithm”, *International Journal of Automation and Computing*, Springer, pp. 1- 11, March, 2020
 34. **Debasish Nayak**, **Prakash Kumar Rout**, Sudhakar Sahu, Debiprasad Priyabrata Acharya, Umakanta Nanda, **Dhananjaya Tripathy**, “A novel indirect read technique based SRAM with ability to charge recycle and differential read for low power consumption, high stability and performance”, *Microelectronics Journal*, Elsevier, Vol. 97, pp. 1-11, March, 2020
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37. **Nalini Singh** and Satchidananda Dehuri, "Multiclass classification of EEG signal for epilepsy detection using DWT based SVD and fuzzy kNN classifier", Intelligent Decision Technologies- An International Journal, pp. 1-14, May, 2020
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41. **Pamela Chaudhury**, Hrudaya Kumar Tripathy, "A novel academic performance estimation model using two stage feature selection", Indonesian Journal of Electrical Engineering and Computer Science, Vol. 19, No. 3, pp. 1610-1619, May, 2020
42. Golak Bihari Panda, and **Saroj Kanta Misra**, "Use of Block Toeplitz Matrix in the Study of Möbius Pairs of Simplexes in Higher-Dimensional Projective Space", Arnold Mathematical Journal, Springer, May, 2020 (DOI: 10.1007/s40598-020-00142-y)
43. **Soumya Priyadarsini Panda**, Ajit Kumar Nayak, and **Satyananda Champati Rai**, "A Survey on Speech Synthesis Techniques in Indian Languages", Multimedia Systems, Springer, Vol. 26, No. 4, pp. 453-478, May, 2020
44. **Nivedita Pati**, B. Panda, Bhagbat Panda, "Stability analysis of photovoltaic cell under grid faults", International Journal of power electronics and drives systems, Vol. 11, No.-2, pp. 931-941, June, 2020
45. Arpita Tripathy, **Manoranjan Behera**, Ardhendu Sekhar Rout, S K Biswal, A D Phule, "Optical, Structural, and Antimicrobial Study of Gold nanoparticles Synthesized Using an Aqueous Extract of Mimosa pudica Raw Fruits", Biointerface Research In Applied Chemistry, AMG Transcend Association, Vol. 10, No. 6, pp. 7085 – 7096, June, 2020
46. **Kamalakanta Satpathy**, U. Rehman, B. Cools, L. Verdickt, G. Peleman, I. Nopens, "CFD-Based Process Optimization of a Dissolved Air Flotation System for Drinking Water Production", Int. J. Water Science and Technology, June, 2020 (DOI: 10.2166/wst.2020.028)
47. S. Sahoo, **Manasa Dash**, S. Behera, S.K. Sabut, "Machine learning approach to detect cardiac arrhythmias in ECG signals: a survey", IRBM - Innovation and Research in BioMedical Engineering, June, 2020 (DOI: 10.1016/j.irbm.2019.12.001)

48. Ajaya K. Tripathy, **Pradyumna K. Tripathy, Ambarish G. Mohapatra**, Niranjana K. Ray, Saraju P. Mohanty, "WeDoShare: A Ridesharing Framework in Transportation Cyber-Physical System for Sustainable Mobility in Smart Cities", IEEE Consumer Electronics Magazine, IEEE, Vol. 9, No. 4, pp. 41-48, June, 2020
49. Figlu Mohanty, Suvendu Rup, **Bodhisattva Dash**, Banshidhar Majhi, M. N. S. Swamy, "An improved scheme for digital mammogram classification using weighted chaotic salp swarm algorithm-based kernel extreme learning machine", Applied Soft Computing, Elsevier, Vol. 91, 43983, pp.106-266, June, 2020
50. **Rabi Narayan Mishra**, K. B. Mohanty, "Development and implementation of induction motor drive using sliding-mode based simplified neuro-fuzzy control", Engineering Applications of Artificial Intelligence, Elsevier, Vol. 91, pp. 103593-103608, June, 2020

Others

1. **Priyambada Pal**, "Power and Ideology in Polymical texts: A comparison between Ramachandra Guha and Arundhati Roy", Asian Quarterly, Vol. 17, No. 2, pp. 219-228, August 2019
2. **Sanghamitra Das**, Suprava Dey, Tara Prasanna Dash, Eleena Mohapatra, Jhansi Rani Jena and C K Maiti, "Impacts of NBTI and Hot Carrier Stress on Silicon Nanowire Transistor Characteristics", Nanomaterials and Energy, Vol. 8, No. 2, pp.151-158, August, 2019
3. **Saswati Jena**, and Sareeta Behera, "Understanding Child Rights in Augmenting Child Friendly Rearing Practices Congregating with Rights Based Counseling Approach: A Case Study", International Journal of Creative Research Thoughts, Vol. 8, No. 4, pp. 3789-3794, April, 2020
4. Sareeta Behera, and **Saswati Jena**, "Right To Creative Expression and Neurocognitive Learning Among Children With Special Needs: Fostering Neurodiversity Based Talent in Teaching-Learning Environments", International Journal of Creative Research Thoughts, Vol. 8, No. 4, pp. 3702-3706, April, 2020
5. **Saswati Jena**, and Sareeta Behera, "Psychological Capital And Psycho-Ecological Schemata In Crisis Intervention", International Journal of Advanced Research and Development, Vol. 5, No. 4, pp. 24-27, May, 2020
6. **Saswati Jena**, Sareeta Behera, "Cybernetics and cyber counselling interface in crisis resilience and coping: Impact of intervention", International Journal of Advance Research and Development, Vol. 5, No. 5, pp. 18 – 20, May, 2020
7. **Chittaranjan Behera**, Radhanath Rath, "Oscillation and Asymptotic Behavior of Second-Order Neutral Delay Difference Equations with Variable Delays", International journal of difference equation(IJDE), Vol. 15, No. 1, pp. 107 – 126, June, 2020
8. Chapala Maharana, **Ch. Sanjeev Kumar Dash, Bijan Bihari Mishra**, Satchidananda Dehuri. "Feature Selection for Classification Using Extreme Learning Machine", Journal of Emerging Technologies and Innovative Research (JETIR), Vol. 7, No. 6, pp. 769-774, June, 2020

Conference Proceedings Published

1. **Debasish Nayak, Umakanta Nanda, Prakash Kumar Rout, Sudhansu Mohan Biswal, Dhananjaya Tripathy, Sanjit Kumar Swain, Biswajit Baral, Satish Kumar Das,** “A Novel Driver less SRAM with Indirect Read for Low Energy Consumption and Read Noise Elimination”, In proc: Devices for Integrated Circuit (DevIC 2019), IEEE, pp. 314-317, July, 2019
2. **Dhananjaya Tripathy, Debasish Nayak, Sudhansu Mohan Biswal, Sanjit Kumar Swain, Biswajit Baral, Satish Kumar Das,** “A Low Power LNA using Current Reused Technique for UWB Application”, In proc: Devices for Integrated Circuit (DevIC 2019), IEEE, pp. 310-313, July, 2019
3. **Biswajit Baral, Sudhansu Mohan Biswal, Sanjit Swain, Satish Kumar Das, Debasish Nayak, Dhananjaya Tripathy,** “RF/Analog & Linearity performance analysis of a downscaled JL DG MOSFET on GaAs substrate for Analog/mixed signal SOC applications”, In proc: Devices for Integrated Circuit (DevIC 2019), IEEE, pp. 505-509, July, 2019
4. **Sanjit K Swain, Satish K Das, Sudhansu M Biswal,** Sarosij Adak, Umakanta Nanda, Asmit Amlan Sahoo, **Debasish Navak, Biswajit Baral, Dhananjaya Tripathy,** “Effect of High-K Spacer on the Performance of Non-Uniformly doped DG-MOSFET”, In proc: Devices for Integrated Circuit (DevIC 2019) IEEE, pp. 510-514, July, 2019
5. **Satish K. Das, Sanjit K. Swain, Sudhansu M Biswal, Debasish Nayak,** Umakanta Nanda, **Biswajit Baral, Dhananjaya Tripathy,** “Effect of High-K Spacer on the Performance of Gate-Stack Uniformly doped DG-MOSFET”, In proc: Devices for Integrated Circuit (DevIC 2019), IEEE, pp. 365-369, July, 2019
6. **Sudhansu Mohan Biswal, Sanjit Kumar Swain, Biswajit Baral, Debasish Nayak,** Umakanta Nanda, **Satish Kumar Das, Dhananja Tripathy,** “Performance Analysis of Staggered Heterojunction based SRG TFET biosensor for health IoT application”, In proc: Devices for Integrated Circuit (DevIC 2019), IEEE, pp. 493-496, July, 2019
7. Nitin K Mucheli, Umakanta Nanda, **D. Nayak, P. K. Rout, Sanjit Kumar Swain, Satish Kumar Das, Sudhansu Mohan Biswal,** “Smart Power Theft Detection System”, In proc: Devices for Integrated Circuit (DevIC 2019), IEEE, pp. 302 – 305, July, 2019
8. **Satish Kumar Das, Sudhansu Mohan Biswal, Sanjit Kumar Swain, and Biswajit Baral,** “Analysis of Junction-Less Triple-Material Cylindrical Surrounding Gate MOSFET”, In proc: International Conference on Intelligent Computing and Communication Technologies (ICICCT-2019), Springer, pp. 803-812, July, 2019
9. T. P. Dash, **Sanghamitra Das,** S. Dey, J. Jena, E. Mohapatra, C. K. Maiti , “Stress analysis in uniaxially strained-SiGe channel FinFET at 7N Tech. node”, In proc: IEEE Electron Devices Kolkata Conference (EDKCON), IEEE, pp. 171-175, July, 2019
10. T. P. Dash, S. Dey, **Sanghamitra Das,** E. Mohapatra, J. Jena, C. K. Maiti , “Stress tuning in nanoscale FinFETs at 7nm”, In proc: IEEE Electron Devices Kolkata Conference (EDKCON), IEEE, pp. 166-170, July, 2019

11. **Sanghamitra Das**, T. P. Dash, S. Dey, E. Mohapatra, J. R. Jena, C. K. Maiti NBTI, "Degradation and Recovery in Nanowire FETs", In proc: Devices for Integrated Circuit (DevIC 2019), IEEE, pp. 70-74, August, 2019
12. Sarat C. Nayak, **Ch Sanjeev Kumar Dash**, **Ajit Kumar Behera**, Satchidananda Dehuri, "Improving Stock Market Prediction Through Linear Combiners of Predictive Models", In proc: International Conference on Computational Intelligence in Data Mining (ICCIDM2018), Springer, pp. 415-426, August, 2019
13. **Pulak Sahoo**, J. R. Mohanty, "System Test Effort Estimation using Class Model: A Case Study", In proc: 3rd International Conference on Smart Computing & Informatics (SCI2018), Springer, pp. 239-250, September, 2019
14. Alloran Pradhan, Varun Behera, Abhisekh Mohanty, **Soumya Priyadarsini Panda** , "A Voice-based Information Extraction System", In proc: 3rd International Conference on Smart Computing & Informatics (SCI2018), Springer, pp. 593-602, September, 2019
15. Babita Panda, **Nivedita pati**, Bhagwat Panda, "Hardware implementation of PV Z source inverter using maximum boost control method", In proc: 3rd International Conference on Smart Computing and Informatics, Springer, pp. 685-693, November, 2019
16. **Ajit Kumar Behera**, Mrutyunjaya Panda, "Software reliability prediction with ensemble method and virtual data point incorporation", In proc: International Conference on Biologically Inspired Techniques in Many-Criteria Decision Making (BITMDM-2019), Springer, pp. 69-77, December, 2020
17. Sarat Chandra Nayak, **Ch. Sanjeev Kumar Dash**, **Bijan Bihari Mishra**, Satchidananda Dehuri, "Multi-verse optimization of multilayer perceptrons (MV-MLPs) for efficient modeling and forecasting of crude oil prices data", In proc: International Conference on Biologically Inspired Techniques in Many-Criteria Decision Making (BITMDM-2019), Springer , pp. 46-54, December, 2020
18. **Annapurna Mishra**, Satchidananda Dehuri, Pradeep kumar Mallick, "Classification of Real Time Noisy Fingerprint Images Using FLANN", In proc: International Conference on Biologically Inspired Techniques in Many-Criteria Decision Making, Springer, pp.62-68, January, 2020
19. **Soumya Ranjan Samal**, Nikolay Dandanov, Shuvabrata Bandopadhaya,Vladimir Poulkov, "Adaptive Antenna Tilt for Cellular Coverage Optimization in Suburban Scenario", In proc: International Conference on Biologically Inspired Techniques in Many-Criteria Decision Making, Springer, pp.240-249, January, 2020
20. Lambodar Jena, Soumen Nayak, **Ramakrushna Swain**, "Chronic Disease Risk (CDR) Prediction in Biomedical Data Using Machine Learning Approach", In proc: ICAC-2019, Springer, pp 232-239, January, 2020
21. **Kasturi Dhal**, **Satyananda Champati Rai**, Prasant Kumar Pattnaik, Somanath Tripathy, "KeySED: An Efficient Keyword based Search over Encrypted Data in Cloud Environment", In proc: International Conference on Data Science and Engineering (ICDSE), IEEE, pp. 133-138, January, 2020

22. B. Keswani, P, Vijay, **Narayan Nayak**, Poonam keswani, S. Dash, L. Sahoo, T. Mishra, **Ambarish G. Mohapatra**, "Adaptive machine learning techniques for credit card fraud detection", In proc: International conference on Innovation computing and communication, Springer, pp. 443-455, February, 2020
23. **Dhananjaya Tripathy**, Pritam Bhadra, "A High Speed Two Stage Operational Amplifier With High CMRR", In proc: 3rd IEEE International Conference on Recent Trends in Electronics, Information and Communication Technology, IEEE, pp. 255-259 , February, 2020
24. **Soumya Priyadarsini Panda**, Ajit Kumar Nayak, "Spectral Smoothing based Waveform Concatenation Technique for Speech Quality Enhancement in Text to Speech Systems", In proc: 3rd International Conference on Advanced Computing and Intelligent Engineering, Springer, pp. 425-432, February, 2020
25. **Rabindra Kumar Dalei**, **Satyananda Champti Rai**, and Ajit Kumar Nayak, "Content Routing Framework for Wireless Sensor Networks", In proc: International Conference on Recent Innovations in Electrical, Electronics & Communication Engineering - (ICRIEECE) , IEEE, pp. 1305-1308, February, 2020
26. **Anapurna Mishra**, Satchidananda Dehuri, "Fingerprint Classification by Filter Bank Approach Using Biogeography Based Optimized Functional Link ANN", In proc: International Conference on Applied Electromagnetics, Signal Processing and Communication (AESPC), IEEE, March, 2020
27. **Utpal Das**, Shuvabrata Bandopadhyaya, **Prakash Kumar Rout**, "Quality of Service Analysis of Massive MIMO Wireless System with Time Division Duplexing", In proc: International Conference on Applied Electromagnetics, Signal Processing and Communication (AESPC), IEEE, pp. 1-4, March, 2020
28. **Nibedita Swain**, "Application of Nonlinear and Optimal Control Techniques to High Gain DC–DC Converter", In proc: 4th International Conference on Innovations in Electrical and Electronics Engineering (ICIEEE 2019), Springer, pp 129-144, March, 2020
29. **Soumya Priyadarsini Panda**, "Intelligent Voice-based Authentication System", In proc: 3rd International conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud, IEEE, pp. 757-760, March, 2020
30. Ashutosh Samal, Kaustav Purkait, Harsh Pandey, **Umasankar Das**, **Monorama Swain**, "Smart Attendance based Decision Support System for Mid-day Meal Scheme", In proc: 18th International Conference on Information Technology (ICIT 2019), IEEE, pp. 365-370, March, 2020
31. **Umasankar Das**, Atanu Basu, Girija Prasad Mohapatra, Swabhimann Chowdhury , "Hyperlocal Based Support and Information Diffusion in Social Media", In proc: 18th International Conference on Information Technology (ICIT 2019), IEEE, pp. 406-411, March, 2020
32. **Amiya Bhusana Sahoo**, Ninaad Patnaik, Aditya Ravi, Smarak Behera, B. B. Mangaraj, "Design of a Miniaturized Circular Microstrip Patch Antenna for 5G Applications", In proc: International

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33. **Aditya Acharya**, A Venkat Giri, "Contrast Improvement using Local Gamma Correction", In proc: 6th International Conference on Advanced Computing and Communication Systems (ICACCS), IEEE, pp. 110-114, April, 2020
34. Debolina Mahapatra, Chandan Maharana, **Soumya Priyadarsini Panda**, **Jasaswi Prasad Mohanty**, Abu Talib, Amit Mangaraj, "A Fuzzy-Cluster based Semantic Information Retrieval System", In proc: International Conference on Computing Methodologies and Communication (ICCMC 2020), IEEE, pp. 675-678, April, 2020

Book Chapters Published

1. **Debasish Nayak**, D P Acharya, **Prakash K. Rout** and U Nanda, "Design and analysis of variability aware FinFET-based SRAM circuit design", VLSI and Post-CMOS Electronics, IET, Chapter 6, pp. 101 – 122, Sep-19
2. Bright Keswani, **Tarini Ch. Mishra**, **Ambarish G. Mohapatra**, Poonam Keswani, "IoT Security and Privacy Preservation", Security Designs for the Cloud, IoT, and Social Networking, Willy, Chapter. 6, pp. 99-112, Nov-19
3. Bright Keswani, **Ambarish G. Mohapatra**, **Tarini Ch. Mishra**, Poonam Keswani, Pradeep Ch. G. Mohapatra, Md Mobin Akhtar, Prity Vijay," World of Virtual Reality (VR) in Healthcare", Advanced Computational Intelligence Techniques for Virtual Reality in Healthcare, Springer, pp. 1-23, Dec, 2019
4. **Nibedita Swain**, **Nivedita Pati**, "Design of linear and non linear controllers for grid connected PV system for constant voltage application", Microgrid: Operation, Control, Monitoring and Protection, Springer, Chapter. 5, pp. 149-179, Jan-20
5. **Biranchi N Rath**, Bidyadhar Subudhi, "Cognitive Informatics, Computer Modeling, and Cognitive Science, An extreme learning-based adaptive control design for an autonomous underwater vehicle", Elsevier, Chapter No. 12, pp. 213-228, 2020
6. N. R. Das, **S. C. Rai**, A. K. Nayak, "Scheduling Operations of Smart Appliances Using Demand Response", Advances in Intelligent Computing and Communication, Springer, Chapter 19, pp. 369-397, February 2020

Books Published

1. **Siba Sankar Nayak**, Sanghamitra Parija, An Introduction to Green Technology, Walnut Publication, ISBN: 9789389744002, November 2019
2. L. K. Bhopa, Pravat Kumar Rath, **Tusar Parida**, The monograph of Laboratory activities in Mathematics for Class IX, Media Publications Pvt Ltd, ISBN: 9788193281208, December 2019
3. L. K. Bhopa, Pravat Kumar Rath, **Tusar Parida**, The monograph of Laboratory activities in Mathematics for Class X, Media Publications Pvt Ltd, ISBN: 9788193281215, December 2019

Paper Presentations in International/ National Conferences/ Seminars

Sl. No.	Faculty Name	Paper Title	Conference/Seminar Name	Conference/ Seminar Details
1	Nibedita Swain	Application of non-linear and optimal control technique to high gain DC-DC converter	4 th International Conference on "Innovations in Electrical and Electronics Engineering (ICIEEE 2019)"	GNIT, Kolkata, 26 th - 27 th July 2019
2	Seema Behera	Frequency Control Regulation analysis with effect of smoothing technique on frequency response metric	TENCON-2019	Kerla, 17 th - 20 th October 2019
3	Rama Prasad Panda	A Standalone Sine Wave Inverter with Reduced Switching Loss	1 st International conference on "Advances in Electrical Control and Signal System (AECSS-2019)"	SOA, University, Bhubaneswar, 8 th - 9 th November 2019
4	Gyana Ranjan Biswal	Voltage Control Method of Isolated Wind Power System	1 st International conference on "Advances in Electrical Control and Signal System (AECSS-2019)"	SOA, University, Bhubaneswar, 8 th - 9 th November 2019
5	Nibedita Swain, Sadhna Mallik	Robust controller application to PV fed CUK converter for constant voltage regulation: A review	1 st International conference on "Advances in Electrical Control and Signal System (AECSS-2019)"	SOA, University, Bhubaneswar, 8 th - 9 th November 2019
6	Nivedita Pati	Sensitivity Analysis of PI And Youla Controller For a PV based boost converter	1 st International conference on "Advances in Electrical Control and Signal System (AECSS-2019)"	SOA, University, Bhubaneswar, 8 th - 9 th November 2019
7	Rabi Narayan Mishra, Partha Sarathi Behera	Hybrid Sliding-Mode based Simplified NFC for Fuel Cell-powered Linearized IM Drive	1 st International conference on "Advances in Electrical Control and Signal System (AECSS-2019)"	SOA, University, Bhubaneswar, 8 th - 9 th November 2019
8	Jagadish Kumar Patra	A Review of Advancements in DC grid Technology	1 st International conference on "Advances in Electrical Control and Signal System (AECSS-2019)"	SOA, University, Bhubaneswar, 8 th - 9 th November 2019

Sl. No.	Faculty Name	Paper Title	Conference/Seminar Name	Conference/Seminar Details
9	Anita Mohanty	A prototype of density based Intelligent Traffic Light Control System using Image Processing Technique and Arduino Microcontroller in LabVIEW environment	1 st International conference on “Advances in Electrical Control and Signal System (AECSS-2019)”	SOA University, Bhubaneswar, 8 th - 9 th November 2019
10	Soumya Priyadarsini Panda	Intelligent Voice-based Authentication System	3 rd International Conference on “IoT in Social, Mobile, Analytics and Cloud (I-SMAC)”	SCAD Institute of Technology, Tamilnadu, 12 th -14 th December 2019
11	Ch. Sanjiv Kumar Dash	Multi-verse optimization of multilayer perceptrons (MV-MLPs) for efficient modeling and forecasting of crude oil prices data	International Conference on “Biologically Inspired Techniques in Many-Criteria Decision Making (BITMDM-2019)”	Fakir Mohan University, Balasore, 19 th - 20 th December 2019
12	Ajit Kumar Behera	Software reliability prediction with ensemble method and virtual data point incorporation	International Conference on “Biologically Inspired Techniques in Many-Criteria Decision Making (BITMDM-2019)”	Fakir Mohan University, Balasore, 19 th - 20 th December 2019
13	Annapurna Mishra	Fingerprint classification of real time images using FLANN	International Conference on “Biologically Inspired Techniques in Many-Criteria Decision Making (BITMDM-2019)”	Fakir Mohan University, Balasore, 19 th - 20 th December 2019
14	Soumya Ranjan Samal	Adaptive Antenna Tilt for Cellular Coverage Optimization in Suburban Scenario	International Conference on “Biologically Inspired Techniques in Many-Criteria Decision Making (BITMDM-2019)”	Fakir Mohan University, Balasore, 19 th - 20 th December 2019
15	Umasankar Das	Hyperlocal based Support and Information Diffusion in Social Media	18 th International Conference on Information Technology (ICIT 2019)	IIIT, Bhubaneswar, 19 th - 21 st December 2019

Sl. No.	Faculty Name	Paper Title	Conference/Seminar Name	Conference/Seminar Details
16	Monorama Swain	Smart Attendance based Decision Support System for Mid-day Meal Scheme	18 th International Conference on Information Technology (ICIT 2019)	IIIT, Bhubaneswar, 19 th - 21 st December 2019
17	Saswati Jena	Damaging effect of school building on later stages of life and the role of counseling as an intervention restoring mental health.	NAOP (Symposium on Parenting 'At Risk' Children and Interventions for Adolescent Issues)	University of Pondicherry, 20 th - 22 nd December 2019
18	Saswati Jena	Role of parenting in precluding child sexual abuse (CSA) with the help of POCSO and rights based approach.	NAOP (Symposium on Parenting 'At Risk' Children and Interventions for Adolescent Issues)	University of Pondicherry, 20 th - 22 nd December 2019
19	Aditya Acharya	Contrast Improvement using Local Gamma Correction	6 th International Conference on "Advanced Computing and Communication Systems (ICACCS)"	Sri Eshwar College of Engineering, Coimbatore, Tamilnadu, 6 th - 7 th March 2020

Poster Presentations in International/ National Conferences/ Seminars

Faculty Name	Paper Title	Conference Name	Conference Details
Siba Sankar Nayak	Future Trends in Green Chemistry	21 st Odisha Bigyan 'O' Paribesh Congress	SOA University, Bhubaneswar, 23 rd - 24 th November 2019
Siba Sankar Nayak	Importance of Accreditation & Assessment in Quality Assurance	49 th ISTE Faculty Convention	S O A University, BBSR, 29 th - 30 th November 2019
Siba Sankar Nayak	A critica review of Green Process	ISCA Bhubaneswar Chapter	KIIT University, Bhubaneswar, 13 th -14 th December 2019

Participation in FDPs

1. Asif Uddin Khan participated in the FDP for Student Induction, ITER, Bhubaneswar, 6th – 8th July, 2019

2. Ajaya Kumar Tripathy, and Pradyumna Kumar Tripathy, participated in the Faculty Enablement Program on “InfyTQ based Foundation Program”, Infosys, 12th- 19th July, 2019
3. Ajaya Kumar Tripathy, Ajit Kumar Behera, Ch. Sanjeev Kumar dash, Debasmita Pradhan, Nihar Ranjan Nayak, Pamela Choudhury, Pradipta Kumar Pattnayak, Pradyumna Kumar Tripathy, Rama Krushna Swain, and Soumya Priyadarsini Panda participated in the FDP on “Data Science”, SIT, Bhubaneswar, 13th - 14th July 2019
4. Gyana Ranjan Biswal participated in the FDP on “DC micogrid”, NPTEL-AICTE July-September 2019 (8 Weeks)
5. Gyana Ranjan Biswal participated in the FDP on “Modern electric power system networks”, VSSUT, Burla, 5th -10th August 2019
6. Prakash Kumar Rout participated in the FDP on “Electronic systems design and manufacturing using ORCAD simulation tools”, Experts of ENTUPLE Technologies Pvt, Ltd., 8th -10th August 2019
7. Prakash Kumar Rout participated in the FDP on “VLSI Design and Verification”, Trident Academy of Technology, Bhubaneswar, 26th - 31st August 2019
8. Debasmita Pradhan, and Pamela Chaudhury participated in the Faculty Knowledge Sharing Program on “Artificial Intelligence and Business Application”, Hotel Presidency, Bhubaneswar, 21st September 2019
9. Prakash Kumar Rout participated in the FDP on “VSD - Custom Layout Online course from Udemy”, 12th November 2019
10. Priyanka Kar, Nibedita Swain, and Nivedita Pati participated in the FDP on “Moden power electronics trends and solutions for renewable energy and microgrid applications”, REC, Bhubaneswar, 2nd -7th December 2019
11. Anita Mohanty participated in the FDP on “IOT for Emerging Technical Applications in Smart City”, Trident Academy of Technology , Bhubaneswar, 3rd - 15th December 2019
12. Samaleswari Prasad Nayak participated in the AICTE Sponsored Two Weeks FDP on “IoT for Emerging Technical Applications in Smart City”, TAT, Bhubaneswar, 3rd - 15th December 2019
13. Bimal Kumar Meher participated in the FDP on “Recent Development in Cyber Security and Blockchain Technologies”, Dr. SPM International Institute of Information Technology (DSPM IIIT), Naya Raipur, Chhattisgarh, 4th – 8th December 2019
14. Lopamudra Mitra, Nibedita Swain, and Ipsita Pahi participated in the FDP on “Entrepreneureship development program”, SIT, Bhubaneswar, 7th December 2019 -4th Januay 2020
15. Manasa Dash, Tusar Parida, and Susmita Biswal participated in the “FDP on MAMEA 2019”, C. V. Raman College of Engineering, Bhubaneswar, 13th-14th December 2019
16. P. S. Behera participated in the FDP on “Application of soft computing techniques to power system operation and control”, Synergy, Dhenkanal, 6th -10th January 2020

17. S. Das participated in the FDP on “Smart grid challenges and opportunities”, ABIT, Cuttack, 6th -10th January, 2020
18. Gyana Ranjan Biswal participated in the FDP on “Introduction of Accreditation Mechanism NBA Approach”, Extension center of NITTTR, Bhubaneswar, 20th -24th January 2020
19. Ananya Roychoudhury, Aruni Nayak, Bipin Bihari Tripathy, Bidyadhar Padhy, Chittaranjan Behera, Dharitri Maharatha, Gitisudha Giri, Jaideep Talukdar, Jayashree Das, Janemejaya Senapati, Jyoti Prakash Pujari, Kamalakanta Satpathy, Mahendra P. Agasty, Manoranjan Behera, Manasa Dash, Manas Ranjan Singh, Priyambada Pal, Rupambika Patnaik, Saroj Kumar Mishra, Siba Sankar Nayak, Subhakanta Dash, Subrat Kumar Sahu, Susmita Biswal, Subhashree Prusty, Subhashree Subhadharshine, and Tusar Parida participated in the FDP on “Functional Material with Emerging Technology (FMET)”, SIT, Bhubaneswar, 13th-15th February 2020
20. Bhagyalaxmi Jena, Sanghamitra Das, Aradhana Raju, and Anita Mohanty participated in the Online FDP on “LaTEX”, IIT Bombay Spoken Tutorial, 17th -30th April 2020

Participation in STTPs

1. Jasaswi Prasad Mohanty participated in the Short term course on “Data Analytics”, Indian Institute of Science, Bengaluru, 22nd - 26th July 2019
2. Jasaswi Prasad Mohanty participated in the NPTEL-AICTE FDP Courses on “Natural Language Processing”, “Scalable Data Science” and “the Joy of Computing Using Python” July-October 2019 (online mode)
3. Debi Prasad Datta, Siba Sankar Nayak, Manas R. Singh, Ananya Roychoudhury, Rupambika Pattanaik, Suvashree Suvadarshinee, Priyambada Pal, Aruni Nayak, Jyotiprakash Pujari, Manoranjan Behera, Subrat Sahu, Priyanka Kar, Nibedita Swain, Lopamudra Mitra, Rabi Narayan Mishra, R. P. Panda, Seema Behera and S. Das participated in the Online STTP on “Management Issues of Laboratory and Workshop Class”, SIT, Bhubaneswar (from NITTTR, Kolkata), 4th - 8th November 2019
4. Utpal Das participated in the TEQIP-III Short term course on wireless communication, NIT, Rourkela 25th – 29th September, 2019
5. Ambarish Mohapatra, Prakash Rout, Dhananjaya Tripathy, Narayan Nayak, Anita Mohanty, Sudhansu Biswal, Nalini Singh, and Biranchi N. Rath participated in the STTP on "Industrial Automation and Control for Industry 4.0", SIT, Bhubaneswar, 25th – 29th October 2019
6. Anita Mohanty participated in the STTP on “Management Issues of Laboratory and Workshop Class”, SIT, Bhubaneswar, 4th - 8th November 2019
7. Ramakrushna Swain participated in the STTP on “Introduction of Accreditation Mechanism NBA”, NITTTR, Extension Centre, Bhubaneswar, 20th – 24th January 2020

Participation in Workshops

1. Sudhansu Pati, Sushant K. Pattnaik participated in the TEQIP-III Workshop on “VLSI Design & Verification”, Trident Academy of Technology, Bhubaneswar, 26th – 31st August 2019

2. Mahendra P. Agasty participated in the Workshop on “Mentorship Skill Development on Innovation and Entrepreneurship”, MHRD, AICTE, New Delhi, 9th September -10th September 2019
3. Ambarish Mohapatra, Anita Mohanty, Biranchi N. Rath, Dhananjaya Tripathy, Nalini Singh, Narayan Nayak, and Sudhansu Biswal participated in the National Workshop on "Advanced Communications and Signal Processing", 27th -29th September 2019
4. Bikram Keshari Mishra and Jaideep Talukdar participated in the Workshop on “SWAYAM & MOOCs” organized by TEQIP-III BPUT, Odisha (ATU), Hotel Suryansh, Bhubaneswar, 31st October, 2019
5. Debi Prasad Datta participated in the National Workshop on “Science and Technology of Low Dimensional Materials”, ITER, Bhubaneswar, 1st-3rd November 2019
6. Sushri Samita Rout participated in the Workshop on “Intellectual Property Rights”, Hotel Suryansh, Bhubaneswar, 8th November 2019
7. Ajaya K. Tripathy, Amarjeet Mohanty, Asif Uddin Khan, Bhagwat P. Chaudhury, Bikram K. Mishra, Bimal K. Meher, Ch. Sanjeev K. Dash, Chittaranjan Mohapatra, Debasmita Pradhan, Pamela Chaudhury, Gopal K. Sahu, Jasaswi P. Mohanty, Kasturi Dhal, Mukti Routray, Nihar R. Nayak, Pradipta K. Pattanayak, Pradyumna K. Tripathy, Ramakrushna Swain, Samaleswari P. Nayak, Saumyaranjan Dash, Soumya P. Panda, Suchismita Rout, Tarini C. Mishra, Sushri S. Rout, Ajit K. Behera, Manoj K. Samantara, Pulak Sahoo, Umasankar Das, Ambarish Mohapatra, Biranchi N. Rath, Nalini Singh, Narayan Nayak, and Sudhansu Biswal participated in the BPUT sponsored Five Day Workshop on “IoT and Sensor Embedded Applications (ISEA-2019)” , SIT, Bhubaneswar, 16th – 20th December, 2019
8. Bikram K. Mishra, Ch. Sanjeev K. Dash, Debasmita Pradhan, Pamela Chaudhury, Kasturi Dhal, Mukti Routray, Samaleswari P. Nayak, Soumya P. Panda, and Sushri S. Rout participated in the BPUT sponsored Two-Day Workshop on “Connecting the Dots in and around the OS (CDOS-2019)”, SIT, Bhubaneswar, 27th – 28th December, 2019
9. Ambarish Mohapatra, Anita Mohanty, Biranchi N. Rath, Dhananjaya Tripathy, Nalini Singh, Narayan Nayak, Prakash Kumar Rout, Sudhansu Biswal, and Manoranjan Behera participated in the BPUT TEQIP-III sponsored Workshop on “Nanotechnology and Embedded Systems (NES-2019)”, SIT, Bhubaneswar, 27th - 30th December 2019
10. Amarjeet Mohanty, Asif Uddin Khan, Bhagwat P Chaudhury, Bijan Bihari Misra, Bikram Keshari Mishra, Bimal Kumar Meher, Ch. Sanjeev Kumar Dash, Chittaranjan Mohapatra, Debabrata Kar, Debasmita , Pradhan, Gopal Krushna Sahu, Jasaswi Prasad Mohanty, Kasturi Dhal, Manoj Ku Samantara, Mukti Routray, Nihar Ranjan Nayak, Pamela Chaudhury, Pradeepta Kumar Pattanayak, Pradyumna Kumar Tripathy, Pulak Sahoo, Rabindra Kumar Dalei, Ramakrushna Swain, Samaleswari Prasad Nayak, Saumyaranjan Dash, Soumya Priyadarsini Panda, Suchismita Rout, Sushri Samita Rout, Tarini Charana Mishra, and Umasankar Das participated in the BPUT sponsored Five Day Workshop on “Machine Learning for Data Science using Python (MLDSP - 2020)” , SIT, Bhubaneswar, 15th – 19th January 2020

11. R. Mishra participated in the National workshop on “Recent development in smart grid technology”, IIT, Bhubaneswar, 23rd- 24th January 2020
12. S. K. Sahu, Manoranjan Behera, and Siba Sankar Nayak participated in the TEQIP-III sponsored Workshop on Water Quality Monitoring, Analysis & Quality Assurance (WQMAQA), Trident Academy of Technology, Bhubaneswar, 6th – 8th February 2020
13. Mahendra P. Agasty participated in the Workshop on “ IIC Innovation Training on Entrepreneurship Development”, IISER Kolkata, 6th - 7th March 2020
14. Aradhana Raju participated in the Online Workshop on "Intellectual Property Rights-Session 2-Think Patents", 11th April 2020
15. Biswajit Baral participated in the Online Workshop on “ML & AI Using Covid-19 Virus Data Analysis”, 16th – 17th May 2020

Participation in Conferences /Seminars

1. M. Behera participated in the National Conference on “Recent Advances in Energy, Environment and Health Sciences”, ITER, Bhubaneswar, 18th-19th October 2019
2. Ajaya Kumar Tripathy, Pradipta Kumar Pattanaik, and Soumya Priyadarsini Panda participated in the National Level Workshop on “Artificial Intelligence and Machine Learning”, Hotel Mayfair Bhubaneswar, 8th November 2019
3. Siba Sankar Nayek, Subrat Kumar Sahu participated in the “21st Odisha Bigyan 'O' Paribesh Congress”, ITER, Bhubaneswar, 23rd-24th November 2019
4. Siba Sankar Nayak, and Monorama Swain participated in the “49th ISTE faculty convention”, SOA University, Bhubaneswar, 29th- 30th November 2019
5. Monorama Swain participated in the Seminar on “Recent Innovation & Challenges in Renewable Energy for Nation building”, NIST, Berhampur, 7th-8th December 2019
6. Manoranjan Behera, Tusar Parida, Subhakanta Dash, Susmita Biswal, Manasa Dash, Jayashree Das, Gitisudha Giri, Bipin Bihari Tripathy, Dharitri Maharatha, Siba Sankar Nayak, and Subrat Kumar Sahu participated in the National Seminar on "Science and Technology, Rural Development", KIIT, Bhubaneswar, 13th-14th December 2019
7. Bipin Bihari Tripathy, Dharitri Maharatha, Manasa Dash, Manoranjan Behera, Prayag Prasad Mishra, Siba Sankar Nayak, Subhakanta Dash, Subrat Kumar Sahu, Susmita Biswal, and Tusar Parida participated in the “Indian Science Congress Association (ISCA) Bhubaneswar Chapter”, KIIT, Bhubaneswar, 13th -14th December 2019
8. Saswati Jena participated in the “29th Annual Convention of National Academy of Psychology (NAOP)” and International Conference on “Making Psychology Deliverable to the Society”, University of Pondicherry, Puducherry, 20th- 22nd December 2019
9. Janmejaya Senapati, and Mahendra P. Agasty participated in the “Annual Conference of Economic Association”, Parala Maharaja Engg.ineering College, Berhampur, 8th - 9th February 2020

10. Jasaswi Prasad Mohanty and S. Das participated in the Seminar on “AICTE Quality Initiatives and Sensitization of Technical Teachers Training” organized by AICTE Institute of Management and Information technology (IMIT), Cuttack, 22nd February 2020
11. Siba Sankar Nayak participated in the Seminar on “Mining Waste Management”, SIT, Dekhanal, 24th February 2020

Participation in Other Events/ Webinars/ Talk Sessions

1. Mahendra P. Agasty participated in the Orientation program on “Regional Orientation session on IIC 2.0 and ARIIA 2020”, GNIT, Kolkata, 13th August 2019
2. Sadhna Malik, and Nibedita Swain participated in the “Win IT 2.0 Conclave, Infosys, Bhubaneswar, 16th August 2019
3. Rupambika Patnaik participated in the talk on “Presentation skill”, Synergy Institute of Technology, Bhubaneswar, 27th September 2019
4. Debi Prasad Datta, Ananya Roychoudhury, Suvashree Suvadashinee, Aruni Nayak, Manoranjan Behera, and Subrat Kumar Sahu participated in the “TEDxSITB event”, SIT, Bhubaneswar, 15th December 2019
5. Kamalakanta Satpathy participated in the Webinar on “Ideas for New India Challenge 2020”, Joint Development Commissioner, Ministry of MSME, 13th February 2020
6. Jayashree Das, Kamalakanta Satpathy, and Manoranjan Behera participated in the Talk Show “Point of View”, SIT, Bhubaneswar, 24th February 2020
7. Saroj Kumar Mishra participated in the Talk on “World's Engineer Day”, SIT, Bhubaneswar, 4th March 2020
8. Aradhana Raju, and Sanghamitra Das participated in the Online Technical session on " VLSI Design using Verilog with Vivado Tool" , CoreEL Technologies India, 6th April 2020
9. Anita Mohanty participated in the Webinar on "Impact of Corona Virus on Technical Education In India", Cgu-Odisha, 20th April 2020
10. Anita Mohanty participated in the Course on “Examination Reforms”, AICTE, 22nd -25th April 2020.
11. Anita Mohanty participated in the Online Training Program on “ARM Cortex M4-F based TI TIVA LAUNCHPAD”, under Texas Instruments University Program, 28th - 30th April 2020
12. Anita Mohanty participated in the Webinar on “Elsevier and VTU”, 29th April 2020
13. Biswajit Baral participated in the one week webinar series on “Wireless Communication towards 5G, Singhad Institute of Technology and Science, Pune, 25th - 29th May 2020

Participation in Online Courses and Programs during Lockdown

Along with participation in various faculty development programs in regular/ online mode (listed above), almost all faculty members participated in a large number of online courses, seminars, and knowledge enriching programs provided by various renowned Universities/ Organizations/ Institutions in Online mode during the pandemic time of COVID-19 lockdown.

Resource Person / Keynote Speaker / Invited Lecture

Faculty Name	Event Name	Topic/Theme	Venue	Date
Prayag Prasad Mishra	State Level Seminar on Algebraic Systems and Applications	Algebraic System and its Operations	Pattamundai CollegeKendrapara, Odisha 754215	4 th December 2019
Ajaya Kumar Tripathy	"3-day National Workshop on Machine Learning Using Python"	Machine Learning Using Python	Konark Institute of Science and Technology, Bhubaneswar in collaboration with TEQIP-III	11 th - 13 th January 2020
Pradyumna Kumar Tripathy	"3-day National Workshop on Machine Learning Using Python"	Machine Learning Using Python	Konark Institute of Science and Technology, Bhubaneswar in collaboration with TEQIP-III	11 th - 13 th January 2020
Sudarshan Padhy	BPUT TEQIP-III sponsored Five Days Workshop on "Machine Learning for Data Science using Python (MLDSP - 2020)"	Machine Learning	SIT, Bhubaneswar	15 th - 19 th January 2020
Sushant kumar Pattnaik (Mentor)	Integrated Hackathon Special session on stress management mantra	JISCE Integrated Hackathon 2020	JIS College of Engineering, Kolkata	18 th May 2020
Soumya Ranjan Samal	one week webinar series on Wireless Communication towards 5G	Adaptive antenna tilt for cellular coverage optimization in suburban scenario	Department of Electronics and Telecommunication Engineering, Singhad Institute of Technology and Science, Pune	27 th May 2020

Technical Sessions Chaired (International Level)

Name of the faculty	Event Name	Organized by/ Venue	Date
Pradyumna Kumar Tripathy	53 rd Annual Convention 2020 International Conference on "Digital Democracy – IT for Change"	Computer Society of India (CSI), KIIT, Bhubaneswar	16 th - 18 th January, 2020

Name of the faculty	Event Name	Organized by/ Venue	Date
Pulak Sahoo	53 rd Annual Convention 2020 International Conference on “Digital Democracy – IT for Change”	Computer Society of India (CSI), KIIT, Bhubaneswar	16 th - 18 th January, 2020
Satyananda Champati Rai	53 rd Annual Convention 2020 International Conference on “Digital Democracy – IT for Change”	Computer Society of India (CSI), KIIT, Bhubaneswar	16 th - 18 th January, 2020
Soumya Ranjan Samal	International Conference on Digital & Communication Revolution	Singhad Institute of Technology and Science, Pune.	31 st May 2020

Editor/Reviewer of Journals

The following faculty members are continuing as reviewers in different International Journals:

Faculty Name	Journal Name
Ambarish G. Mohapatra	Computers and Electronics in Agriculture (Elsevier), Journal of Science and Technology (Springer)
Jayashree Das	Journal of Alloys and Compounds (Elsevier)
Kamalakanta Satpathy	Journal of Nuclear Science & Technology (Elsevier)
Manoranjan Behera	International Nanoletters(Springer) Plasmonics (Springer), Iranian Polymer Journal (Springer), Journal of Nanoparticle Research (Springer), Indian Journal of Applied Chemistry (Hindwai)
Rabi Narayan Mishra	ISA Transaction (Elsevier), Review of Scientific Instruments, Renewable Power Generation (IET), International transaction on electrical energy systems (Wiley), IEEE Transactions on Power Electronics(IEEE), Engineering Applications of Artificial Intelligence(Elsevier), International Journal of Numerical Modelling (Wiley)
Soumya Priyadarsini Panda	Transactions on Industrial Informatics (IEEE), IEEE Access, Speech Communication (Elsevier), International Journal of Speech Technology (Springer)
Tapas Kumar Maji	IEEE Systems Journal (IEEE), Electric Power Components and Systems (Taylor & Francis), International Transactions on Electrical Energy Systems (Wiley)

Ph. D. Guidance

Faculty Name (Dept.)	Research Area(s)	Registered Guide in Universities	No. of Scholars Guiding
Dr. Ajaya Kumar Tripathy (CSE)	Data Mining	BPUT	01
Dr. Bijan Bihari Mishra (CSE)	Data Mining, Soft Computing	VSSUT Burla, BPUT, KIIT University, SOA University	07
Dr. Ch. Sanjeev Kumar Dash (CSE)	Data Mining	BPUT	01
Dr. Mahendra Prasad Agasty (BSH)	Economics	BPUT	01
Dr. Manoranjan Behera (BSH)	Nano Composite	Centurian University of Technology and Management	01
Dr. Prayag Prasad Mishra (BSH)	Mathematics	BPUT	01
Dr. Pradyumna Kumar Tripathy (CSE)	Parallel Distributed System, Reliability Engineering, Image Processing	BPUT	03
Dr. Prakash Kumar Rout (EIE)	VLSI & Embedded Systems	BPUT	04
Dr. Satyananda Champati Rai (IT)	Mobile Computing	BPUT, KIIT University, SOA University, Utkal University	06
Dr. Sudarsan Padhy (CSE)	Machine Learning, Computational Biology, Computational Finance, Parallel Algorithms, Finite Element Method, Computational Fluid Dynamics, Optimization	Utkal University, Ravenshaw University, KIIT University, SOA University, IIIT, Bhubaneswar and Centurian university of Technology and Management	10
Dr. Sudhansu Kumar Pati (ECE)	Advanced Semiconductor Device Modeling and Simulation	BPUT	01
Dr. Sushri Samita Rout (IT)	Computational Intelligence, Data Mining, and Internet of Things	BPUT	01

List of Patents Filed

Patentee Names	Title of Invention	Date of Filing	Date of Publication	Patent Application Number
Ajaya Kumar Tripathy, Pradyumna Kumar Tripathy, Saraju Prasad Mohanty, Niranjana Kumar Ray	User Guidance System	8 th August 2019	13 th September 2019	2019310321 17 A

Chinmaya Kumar Nayak, Satyabrata Das, Soumya Ranjan Samal , Roshni Pradhan, Banchhanidhi Dash, S. Balamurugan	Energy Efficient Monitoring of Mentally Challenged People using Wireless Sensor Networks	3 rd April 2020	15 th May 2020	2020310148 31
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Research Projects

Researcher/ Investigator/ Consultant	Area/ Nature of Work	Funding Agency	Duration	Project Cost in Rs.
A.G.Mohapatra, Pradyumna Kumar Tripathy, Tarini Mishra, Somnath Tripathy	Design and Development of Fibre Bragg Grating Based Cardiac Probe for MRI Environment	TEQIP-III Collaborative Research Initiative Scheme (CRIS), BPUT Odisha	1 year	1,80,000/-
A. G.Mohapatra	Design and Development of packaged FBG sensors for realtime monitoring of strain as well as temperature	SRPS	1 year	50,000/-
Rajan Mishra, Tapas Maji	Energy Monitoring System of Silicon	SRPS	6 months	21,000
Rajan Mishra, Tapas Maji, Jagdish patra	Design of Grid Connected Inverter	SRPS	6 months	38,000.00

Consultancy Projects

Researcher/ Investigator/ Consultant	Area/ Nature of Work	Funding Agency	Duration	Project Cost in Rs.
Ram Prasad Panda	Integrated Network Planning and system study for Mega Lift Irrigation project cluster X	L & T limited, construction	1 year	2,95,000.00

Honours/ Awards Received by Faculty Members

Sl. No.	Name of the Faculty	Name of the honor/award	Granting authority	Honor/Award for	Date of Receiving the Award
1	Gitisudha Giri	Best Teacher Award	Ever Green Forum on the eve of Engineer's Day	Best Teacher	September 2019
2	Pradyumna Kumar Tripathy	OUWJ State Excellence Award-2019 (Best Scientist)	OUWJ	Excellence Contribution	July 2019

Sl. No.	Name of the Faculty	Name of the honor/award	Granting authority	Honor/Award for	Date of Receiving the Award
		Dr. APJ Abdul Kalam Award of Excellence	SAISAB India Foundation	Excellence Contribution	October 2019
		SuperTeacher Award	LectureNotes Technology Pvt Ltd	on 1,00,000 views at lectureNotes	2019
3	Rabi Narayan Mishra	IETE – J C Bose Memorial Award-2019	IETE	Best Engineering Oriented Paper at 62 nd Annual IETE Convention 2019	29 th November 2019
4	Monorama Swain	Best Faculty Award (Engineering)	ISTE	Distinguished contribution in the area of Technical Education and development of ISTE activities in the state of Odisha	7 th December 2019
5	Sudarsan Padhy	Lifetime Achievement Award	OMS	Distinguished Contribution	February 2020
6	Saswati Jena	Galactic Altruism in Social Change	NISER, BBSR	Altruism in Social Change	6 th March 2020

Seminars and Workshops Organized

National Workshop on Advanced Communication and Signal Processing (NWACSP 2019)

The Department of Electronics and Communication Engineering organized a 3-day National Workshop on Advanced Communication and Signal Processing (NWACSP-2019) from 27th to 29th September 2019 at Silicon. This workshop primarily focused on cutting edge technologies in the field of communication, signal and image processing. The eminent speakers for the workshop were Dr. V. M. Rohokale, Associate Professor and Head, Dept. of ECE, SITS, Pune, Dr. Debi Prasad Das, Principal Scientist, CSIR-IMMT, Bhubaneswar, Dr. N. B. Puan, Assistant Professor, Dept. of EE, IIT, Bhubaneswar, Dr. R. P. Panda, Professor, Dept. of ECE, VSSUT, Burla and Er. S. Panigrahi, Circle Integration Project Management Lead, Vodafone, Bhubaneswar. In addition, there was a hands-on training session on “Programming and Application Employing Wavelet based image fusion using MATLAB” by Dr. S. Kumar, Assistant Professor,



Dept. of ECE, KIIT University, Bhubaneswar. There were 133 registered participants including students and faculty members from Silicon and other institutions.

IoT and Sensor Embedded Applications (ISEA-2019) Workshop

The Department of Computer Science and Engineering conducted a BPUT TEQIP-III sponsored 5-day workshop on “IoT and Sensor Embedded Applications (ISEA- 2019)” from 16th to 20th December 2019. The objective of the workshop was to build expertise around the sensor embedded application with Internet of Things (IoT). The workshop focused on different applications of IoT using different types of sensors. The implementation of sensor devices with IoT was simulated with the Raspberry Pi. The participants implemented mini projects on Smart Dust Bin, Soil Moisture Checking, NFC card reading with Arduino, etc. The participants were able to learn about the various communication protocols and the applications of different types of sensors.



Connecting the Dots in and around OS (CDOS-2019) Workshop

The department of CSE/IT/MCA organized a two day TEQIP-III workshop sponsored by BPUT on Connecting the Dots in and around OS (CDOS-2019) from 27th to 28th December 2019. This workshop was conducted by Dr. Debadatta Mishra, Asst. Prof. at IIT Kanpur. The objective of the workshop was to have a deep insight into the Operating System (OS) from a practical perspective. The OS functionality and its behaviour were understood through simulation and hands-on experiments. This workshop enabled the participants to understand non trivial details of the operating system. The workshop had 75 participants.



National Workshop on Nanotechnology and Embedded Systems (NES-2019)

The Department of ECE organized a 4-day TEQIP-III National Workshop on “Nanotechnology and Embedded Systems (NES-2019)” from 27th to 30th December 2019. The program was inaugurated by Prof (Dr.) Chita Ranjan Tripathy, the Vice- Chancellor of BPUT. The primary focus of the workshop was to create awareness on the recent advances in solid-state devices, VLSI circuits and embedded systems. The speakers for the sessions were, Dr. Sameer Sonkusale (Professor, ECE, Tufts University, USA), Dr. Shivananda Koteswar (Head R&D of Synopsys Inc., Bengaluru), Dr. Laxmidhar Behera, Professor, EE, IIT Kanpur, Mr. Atul Bhargava (Principal Engineer, STMicroelectronics, Greater Noida), Mr. Srikant Modugula (CEO, Sevia, Greater Noida), Dr. Bibhu Datta Sahoo (Associate Professor, Dept. of EC, IIT Kharagpur), Dr. Debashis De (Professor and Director, Dept. of CSE, West Bengal University of Technology, West Bengal), Dr. Angsuman Sarkar (Associate Professor, KGEC, West Bengal) and Mr. Puneet Mittal (Founder, VLSI Experts, Noida). Hands on workshops on some cutting-edge technologies were conducted by Mr. Kunal Ghosh, Director and Co-Founder, VLSI System Design, Bengaluru, Dr. Cyril Prasanna Raj, Dean (R&D), MS Engineering College, Bengaluru and Sevia’s team. There were 160 registered participants including students and faculty members from Silicon and other institutions.



CSI Hands on Workshop on Blockchain Technology

A 2-day hands on workshop on Blockchain Technology was organized by CSI-Silicon Student Branch on 11th & 12th January 2020. Prasanth Kumar Sahoo from TCS, Hyderabad conducted the workshop. The workshop started with an Introduction to Blockchain Technology and its application in Crypto currency and other areas like Supply chain management, preserving land records, health sector data etc. Thereafter, the focus was on detailed programming on Ethereum platform using Solidity programming language for developing and deploying smart contracts. Twenty enthusiastic students participated in this workshop and it was a great success.

Workshop on Machine Learning for Data Science using Python (MLDSP-2020)

The department of CSE/MCA organized a TEQIP-III sponsored workshop on Machine Learning for Data Science using Python from 15th January to 19th January 2020. The objective of this workshop was to introduce participants to state-of-the-art methods in Machine Learning - Linear Regression, Logistic Regression, Gradient Descent Method, Clustering and applications related to Forecasting, Recommended Systems, Text and Speech Analytics and their implementation using Python from a pragmatic and learning-throughdoing oriented



approach. Ten resource persons from Academia and Industry delivered talks and conducted hands on sessions during the workshop. There were 149 participants including 43 faculty members and 76 students from Silicon along with 30 faculty members/researchers/students from other Institutes.



Workshop on Functional Materials for Emerging Technology (FMET 2020)

The Department of Basic Sciences & Humanities (BSH) organized a BPUT TEQIP-III sponsored 3-day National Workshop on Functional Materials for Emerging Technology (FMET 2020) from 13th to 15th February 2020. The objective of this workshop was to bring together international & national experts from R&D organizations, academic institutions and industries in the field of materials science to facilitate interactions and discussions on the recent trends in material processing, characterization and its application. Ten invited speakers delivered talks during the workshop. Dr. S. D. Mahanti (Michigan State University, USA) discussed on Energy, Nanoscience and Novel Materials, Dr. Satchidananda Rath (IIT Bhubaneswar) spoke on Magneto-optical properties of semiconductor layered nanosheets. Other eminent speakers were Dr. Subhankar Bedanta (NISER, Bhubaneswar), Dr. A. Srinivasan (IIT Guwahati), Dr. Debakanta Samal (Institute of Physics, Bhubaneswar), Dr. Debabrata Pradhan (IIT Kharagpur), Dr. K. K. Chand, (Scientist, DRDO, Chandipur, Balasore), Dr. Anirban Bhattacharya (IIT Bhubaneswar), Dr. Satya Prakash Sahoo (Institute of Physics, Bhubaneswar) and Dr. Enakshi Das (Silicon Institute of Technology, Sambalpur).



Electrical & Electronics Devices Workshop (EED 2020)

The Department of Electrical and Electronics Engineering (EEE) organized Electrical and Electronics Devices workshop (EED 2020) on 15th February 2020. This workshop mainly focused on enhancement of the basic technical knowledge of the students on devices used in day-to-day activities as well as to provide a platform for effective information sharing. There was a display of around twenty electrical and electronic gadgets along with the description of its working and applications in the real world. Eighty-four students attended this workshop. This workshop was segregated into three interactive sessions. The first session comprised of an industrial talk on 'Substation Layout and Equipment Positioning' by Er. Kanhu Charan Bisoi. In the second session, students moved around the displayed devices and interacted



with the final year students which was followed by an Industrial visit to OPTCL. A technical quiz for the registered students and the prize distribution ceremony were conducted on 4th March 2020 and the winners of the quiz and gadget display were awarded cash prizes and certificates.

National Workshop on Emerging Technologies (NWET 2020)

The Department of Electrical and Electronics Engineering (EEE) organized the National Workshop on Emerging Technologies (NWET 2020) from 27th to 29th February 2020. The main focus of the workshop was on Power with Quality, Reliability, Safety and Security (PQRS). Eminent persons such as Er. Sanjaya Patki (Senior Technical Advisor & Former VP, Corp Engineering Tata Power), Er. P. K. Pattanaik (DGM, E&MR Wing, OPTCL), Dr. K. Rajamani (Chief Engineering Consultant, Power Linkers, Mumbai), Dr. Prashant Navalkar (Director, Power Answer Lab., IIT Bombay), Dr. R. Nagaraja (Founder & MD, PRDC, Bengaluru) and Er. A. K. Tripathy (Former DG, CPRI, Bangalore) addressed the delegates, students and staff members during the workshop. 36 industry professionals, 6 faculty members and research scholars from outside Silicon, and 51 student delegates graced the event and shared their knowledge.



All India Power Engineers' Meet (AIPEM 2020)

The All India Power Engineers' Meet (AIPEM 2020) was organized on 1st March 2020 by the EEE department following the 12th NWET workshop. More than 200 power engineers who were part of the 'SPARK' group met to brainstorm on the current issues related to the power sector. There were three technical sessions in which a pool of subject experts interacted with the delegates on specific topics related to Power Systems.



Other Programs/Talks/ FDP/ Organized

TEDxSITB Event (Unbox Your Mind)

A TEDx internal event was organized at Silicon on 15th September 2019. Mr. Siddharth Bhatte, CEO, Karkhana Makerspace and Ms. Snigdha Panigrahi, LL.M, Human Rights, Member of Women Commission for Odisha were the invited guest speakers. Mr. Bhatte spoke mostly about technology at hand and how to grow with it rather than going the conventional way of writing assignments and having a regular life in college. He also spoke about his motivational entrepreneurial career. Ms. Panigrahi spoke about the ideals followed by modern day youngsters - how they are beneficial in some way and how they can be harmful in some other way. She also discussed about the women of modern era and their sense of judgement. A total of 120 students from Silicon and other colleges participated in this event and showcased their talent in art, music, oration, photography, coding etc.

STTP on Industrial Automation and Control for Industry 4.0 (IACI 2019)

The department of EIE organized a BPUT TEQIP-III sponsored 5-day Short Term Training Program (STTP) on Industrial Automation and Control for Industry 4.0 (IACI 2019) from 25th -29th October 2019. The main objective of conducting this interactive program was to minimize the gap between the industry and academia. Industry 4.0 is the trend towards automation and data exchange in manufacturing technologies and processes which include cyber-physical systems (CPS), the internet of things (IoT), industrial internet of things (IIoT), cloud computing, cognitive computing and artificial intelligence. The technical session opened with a talk on 'What is Industry 4.0?' by Er. S. Maity, Director, CTTC, Bhubaneswar. Other notable speakers of the programme were Prof. (Dr.) Sudhansu Kumar Mishra, BIT, Mesra, Ranchi, Er. Sangram Samantray, Director, Whizzo Infotech Pvt. Ltd, Dr. Kunal Pal, NIT, Rourkela, Er. A. Satapathy, Managing Director and Er. Praneet Kumar, Sr. Engineer, Automation from Electron Techno Centre, Raipur, Er. P. L. Gouda, AGM (Telecom), OPTCL, Bhubaneswar, Dr. Santosh Kumar Behera, Scientist, CSIR-IMMT, Bhubaneswar, Er. Dileep Dwarakanath, Director, AGVI India Pvt. Ltd., Bangalore and Er. Jitendra Kumar Khilar, Asst. Manager (E&I), NALCO Smelter Plant, Angul.



IoT Workshop

The department of CSE/IT/MCA organized a hands-on workshop on Internet of Things (IoT), in association with Lecture Notes, Bhubaneswar from 29th October to 8th November 2019. Students were trained on topics like basics of Arduino, interfacing analog signals and discrete signals with Arduino, interfacing sensors with Arduino, Basics of NodeMCU, and Server-Client Communication using NodeMCU, Cloud Communication and Introduction to Raspberry Pi.

GUI Application Development using JavaFX Workshop

The department of CSE/IT/MCA organized a hands-on workshop on GUI Application Development using JavaFX, in association with Lakshya, Bhubaneswar on 9th November 2019. The workshop covered JAVA FX vs. SWING, JAVA FX Architecture, FXML, Layouts and UI controls, Event Handling and Scene Builder.

Scientific Talk by Prof. Erik Jacquemyn

Professor Erik Jacquemyn (Founder & CEO of Jacquemyn & Associates, Belgium), UNESCO Kalinga Laureate 2017, gave a talk on Popularization of Science on 27th November 2019. Professor Erik Jacquemyn is a leading international expert in science communication and in science centers, science and interactive museums. He used various physical/ visual aids to enhance certain basic concepts of science & engineering. It was an interactive session with excellent student



participation. There were around 200 participants which included faculty members, guests and students.

Expert Talk on Biomedical Image Analysis

The department of CSE/IT/MCA organized a TEQIP-III, BPUT sponsored expert talk on Biomedical Image Analysis using Fusion Techniques under the twining activity of BPUT with VTU (Visvesvaraya Technological University) and AKU (Aryabhatta Knowledge University) on 28th November 2019. The expert talk was delivered by Prof (Dr.) Shubhangi D.C. from VTU. There were 120 participants.



FDP on Leadership Development & Conflict Management

A Faculty Development Program (FDP) on Leadership Development & Conflict Management was conducted on 6th & 7th December 2019 by Mr. S. Chandrasekaran from Sundaram Learning, Chennai for 36 selected senior faculty members to hone their leadership skills. The objective of the program was to make the participants aware of their current leadership style and its impact on others, help them establish a relationship between their Values & Actions, understand the power of leadership communication, inspire higher team management & be aware of their current style of managing conflicts and how to handle conflicts in daily life.

ISTE Tech-O-Meter (HACK-ALLNIGHT by ISTE Student Chapter)

The ISTE Students Chapter at Silicon celebrated its annual event Tech-O-Meter by organizing a 24-hour Hackathon on 8th & 9th February 2020. A total of 129 participants comprising of 35 software and hardware teams participated in this event. Each team had a mix of students from different years. The event was a beginner-friendly Hackathons where the concept of student mentors was introduced. The primary objective of student mentors was to advise the students while brainstorming for ideas, help them refine their final ideas and bring them to life. Tech-O-Meter aims to build a tech-culture at the institute and HACK-ALL-NIGHT provided a great platform to students to test their limits, break their boundaries and nurture their technical skills. All the three winning teams had 1st year students along with other students.



Training Program on Backend Web Development

The department of Electronics and Instrumentation Engineering (EIE) organized a training program on 'Backend Web Development' from 11th to 15th February 2020 for the students of 6th semester.

Fortyone shortlisted students participated in this training program which covered topics such as Introduction to Backend, Introduction to Node, Introduction to Express and MySQL. The objective of this program was to create awareness about the Hackathon events and to discuss their problem statements through project based training. This project based training program mostly covered the fundamentals of NodeJS and MySQL in the web applications. The program concluded with different projects like GIF Searcher, Class Proxy Dealer, Language Translator, Schedule Maker, Skylab Automated Music System, Elevator Simulation and Blogging platform.

Technical Talk Session by Er. J. K. Khilar

The department of Electronics and Instrumentation Engineering (EIE) organized a technical talk session for 6th semester students by Mr. J. K. Khilar (Manager, C&I, NALCO Angul) on 14th March 2020. The objective of the talk session was to create awareness among the students regarding the current skill requirement for a Control and Instrumentation (C&I) Engineer in various core industries like Siemens, ABB and Honeywell. The talk mostly covered the roles of Advanced Process Control (APC), Distributed Control Systems (DCS), Programmable Logic Controllers (PLC) and Supervisory Control and Data Acquisition (SCADA) in process industries. He also discussed about the opportunities for Electronics and Instrumentation students in Power generation and renewable energy companies.

Activities by Entrepreneurship Development Cell

Start-Up Boot Camp

Entrepreneurship Development Cell, Startup Odisha and TiE, Bhubaneswar organized a one day Start-up Boot camp (E-Start) on 20th July 2019. Vishnu Nagraj, Founder and Start-up evangelist, Carve startup labs, Coimbatore was the chief resource person of the boot-camp. Officials from TiE and start-up Odisha were present at the boot-camp. The students were divided into groups and worked on various ideas and presented their ideas. Some activities on startup and innovation were undertaken. About 70 students participated in the Camp.

Entrepreneurship Awareness Camp

ED Cell of Silicon organized an Entrepreneurship Awareness Camp from 14th to 16th September 2019. The Principal of Silicon Institute of Technology Prof. J. Talukdar welcomed everybody to the inaugural session and urged the students to choose entrepreneurship as a career option. The programme coordinator Dr. M. P. Agasty spoke about the objective of the programme. Speaking on the occasion the chief guest, Mr. J. K. Rath, Director Mechem, said that entrepreneurship comes easily to an intelligent person and engineers are intelligent persons. He presented his journey as an entrepreneur. Mr. B. B. Panda, former Director IED spoke on opportunities available at present scenario for entrepreneurship. The second session was taken by Mr. B. S. Pani, Industry consultant and former official of NALCO. He took the session on Identification of business opportunities. Mr. C. R. Patnaik of EDII and Prashant Biswal of IED (Institute of Entrepreneurship Development), Bhubaneswar also took the various sessions.

Entrepreneurship Awareness Camp

ED Cell of Silicon organized an Entrepreneurship Awareness Camp (EAC) from 28th to 30th March 2019 at Sambalpur campus. The Director of Silicon Institute of Technology Prof. P.K.Mishra welcomed everybody to the inaugural session and urged the students to choose entrepreneurship as a career option. The programme coordinator Dr.M.P.Agasty spoke about the objective of the programme and delivered talk on charm of being an entrepreneur. Mr. B. S. Pani spoke to the students on idea

generation. Mr. Tooshar Panigrahi delivered the talk on the role of financial institution on starting new enterprises. Mr. A. K. Bohida from District Industry Centre spoke on formalities of starting new enterprises. There was also a session in which students got a chance to interact with an entrepreneur. The entrepreneur was Mr. P.Parija, who emphasized that money is not a constraint to become an entrepreneur now-a-days as there are many established entrepreneurs who are willing to fund start-ups. Therefore, more and more students should opt for this career.

Entrepreneurship Development Programm

Entrepreneurship Development Cell, Silicon Institute of Technology, conducted Entrepreneurship Development programme from 7th December 2019 - 6th January 2020. Twenty Five Participants from diverse background participated in the training programme. The programme was supported by NSTEDB, Department of science and Technology, Govt. of India.

Workshop on Design Thinking

Entrepreneurship Development Cell and Institution Innovation Council organized workshop on Design thinking on 14th December 2019. Mr. Deepak Chaudhury from, Bangalore was the chief resource person in this occasion. Design Thinking is an iterative process in which we seek to understand the user, challenge assumptions, and redefine problems in an attempt to identify alternative strategies and solutions that might not be instantly apparent with our initial level of understanding. At the same time, Design Thinking provides a solution-based approach to solving problems. It is a way of thinking and working as well as a collection of hands-on methods.

Entrepreneurs Fest 2020

ED Cell of Silicon organized Entrepreneurs Fest 2020 during 1st - 3rd February 2020. Prof. Jaideep Talukdar, Principal, Silicon Institute of Technology, welcomed everybody to the programme and insisted that academic institutions should focus on creating entrepreneurial mindset and inspire students to be innovative, think independently and work dedicatedly. The programme coordinator Dr. M.P.Agasty briefed the gathering about the objective of the programme. Mr. Nitai Gour Dhall, Trustee, Silicon Institute of Technology, talked about his journey as an entrepreneur. Two special talks were organized by the Cell in this occasion. The talks were delivered by two young entrepreneurs of International repute. They were Ashutosh Srivastava and Bibin Babu.

Industrial Lectures Organized for Students

There were total 9 Industrial Lectures conducted during the AY 2019-20 for the 6th semester students covering topics of cutting edge technologies or of latest industry trend.

Sl. No.	Topic	Resource Person	Date	Branches
1	The interlinking game of voltage and current	Er. P.K.Pattnaik, AGM, OPTCL	11-01-2020	EEE
2	Industry Readiness	Priyatosh Sahu, Alumni 2019, Infosys	28-01-2020	CSE
3	Nano Technology	Dr. Punya Brahma Panda, Applied Material	03-01-2020	ECE , AEI
4	Indian Power Sector Scenario & Reforms in Power Sector	Dr. Pratap Ch. Panda	07-02-2020	EEE

Sl. No.	Topic	Resource Person	Date	Branches
5	Sub-station Layout	Er. K.C.Bisoyi, AGM, OPTCL	15-02-2020	EEE
6	Role of SCADA in power sector for effective power management	Mr. Padma Lochan Gouda , AGM,OPTCL	28-02-2020	AEI
7	Electrical Safety	Er. K.C.Bisoyi, AGM, OPTCL	07-03-2020	EEE
8	5G for Everything	Laxmidhar Pradhan, LTE and 5G (SME), Reliance JIO	08-03-2020	ECE , AEI
9	Industrial Automation and Management	Er. Jitendra Kumar Khilar, Dy. Manager, NALCO, Anugul	14-03-2020	AEI

Campus Placement 2019-20

During the AY 2019-20, over 41 companies visited the campus for placement and selected 524 students. The major recruiters were Infosys, Wipro, TCS, Cognizant, Mindtree, Acesocloud. The overall placement figures for 2019-20 are:

Overall Placement Figures for 2019-20:

Branch	Total no of Students	Eligible Students	No. of Job Offers	Success Rate(in %) on Total Students	Success rate(in %) on Eligible Students
CSE	121	113	155	128.10	137.17
IT	55	50	66	120.00	132.00
ECE	186	166	160	86.02	96.39
EEE	126	98	76	60.32	77.55
AEI	57	50	40	70.18	80.00
MCA	50	30	27	54.00	90.00
Total	595	507	524	88.07	103.35

Company-Wise Placement Statistics 2019-20							
Company	Branch						Grand Total
	AEI	CSE	ECE	EEE	IT	MCA	
Infosys	10	30	39	22	8	1	110
Wipro	11	19	28	20	10	-	88
INFY TQ		1					1
Hackwithinfy		1	4		1	4	10
TCS Digital		3					3
TCS Nqt	7	32	29	5	11	1	84
TCS Codevita		8	2		1		11

TCS NINJA		2	4	3			9
CoreEL			4				4
AcesoCloud		8			4		12
FSS		2	2		6		10
Valuelabs		7	6	2	2		17
Gyansys		3		5	3		11
First American		3	3	1			7
Spikewell		2	4	2			8
SAP LABS		1					1
Mindtree		3	3	2			8
AMTEC			1				1
Cognizant	4	5	6	2	3		20
Nexright					2	1	3
Centrox			2			5	7
NIIT			1				1
Searching Yard Software						4	4
Medha Servo Drives	1						1
Rewoke	1						1
IBM	1	5	3	2			11
Black Knight			1				1
ORYID Solutions			1	1			2
Aptus Datalabs		1	1	1	1		4
STL						3	3
Sevya IT	1		4		1		6
IMFA						1	1
Inflexi						3	3
Marquee Semiconductor			4	2			6
Lecture Notes	1	2	2	1	1	1	8
Capgemini	2	2	3	1	1	1	10
DXC	1	3	4	3	1		12
Synopsys			2				2
JBS						3	3

AMAZON					3		3
Mindfire		9	1		2	1	13
Bipro					3		3
Deloitte		1					1
Total	40	155	160	76	66	27	524

Achievements by Students

GATE Achievers

Sl. No	Name	Regd.No	Branch	All India Rank
1	Raju Yadav	1501209398	ECE	45
2	Raj Jha	1501209148	CSE	222
3	Amlan Prateek Acharya	1601209231	ECE	527
4	Rishi Kumar	1601209030	AEI	1046
5	karunesh kumar	1601209371	CSE	1531
6	Anupam Kumar	1601209539	CSE	1567
7	Bhaiya Nischay Kumar Sinha	1601209507	EEE	1630
8	Sidhartha Panda	1601209189	EEE	1973
9	Animes Dash	1601209237	ECE	1989
10	Aditya Ravi	1601209223	ECE	2058
11	Uttam Kumar	1501209305	ECE	2850
12	Subhendu Sekhar Sahoo	1601209109	CSE	4342
13	Debolina Mahapatra	1601209063	CSE	4932
14	Rashmita Pradhan	1601209354	ECE	5009
15	Abhishek Verma	1601209130	EEE	6276
16	Shubham gupta	1601209493	ECE	6970
17	Prince Panda	1601209485	ECE	7139
18	P Sagar patro	1601209289	ECE	7509
19	Akash Das	1601209049	CSE	8537
20	Chandan Maharana	1601209123	CSE	8788
21	Akanksha Rani	1601209531	EEE	9676
22	Swaraj Shubham Mishra	1601209471	EEE	11375
23	Mahadev Mahto	1601209281	ECE	11623
24	Subhashis Das	1601209396	IT	13494
25	Soumyaranjan sahoo	1601209328	ECE	13581

CAT & XAT Achievers

Sl.No	Year	Name	Regd.No	Branch	Percentile
1	2019-20	Akash Das	1601209049	CSE	92.62
2	2019-20	Devidutta Sahoo	1601209263	ECE	92.22
3	2019-20	Anand Kumar	1601209233	ECE	92.16
4	2019-20	Anurag Panda	1601209243	ECE	88.26
5	2019-20	Nikhil Raj	1601209522	CSE	88.12
6	2019-20	Sudhanshu Chaturvedi	1601209111	CSE	87.84

Sl.No	Year	Name	Regd.No	Branch	Percentile
7	2019-20	Debapriti Digdarshini Nayak	1601209259	ECE	82.98
8	2019-20	Sk Abdul Mukit	1601209356	ECE	81.32
9	2019-20	Abhijeet Sahu	1601209001	AEI	61.78
10	2019-20	Soumen Majumdar	1601209035	AEI	57.96
11	2019-20	Jyotirmay Panigrahi	1601209275	ECE	44.36

University Award for Academic Achievements

BPUT has identified the students from 2018-19 passing out batches for the award of Gold Medals and special awards for academic achievements. The gold medalists from Silicon are:

Sl.	Year	Name	Regd.No	Branch	CGPA	Details of award/Achievement
1	2018-19	Raj Jha	1501209148	CSE	9.34	Arjuna Bhuyan Award (University topper)
2	2018-19	Raj Jha	1501209148	CSE	9.34	Gold Medal (Branch Topper)
3	2018-19	Samiksha Agrawal	1501209092	AEI	8.94	Gold Medal (Branch Topper)
4	2018-19	Bharati Kabra	1501209226	EEE	8.97	Gold Medal (Branch Topper)
5	2018-19	Sneha Kumari	1501209418	ECE	9.27	Gold Medal (Branch Topper)
6	2018-19	Anamika Mittal	1501209465	IT	8.98	Gold Medal (Branch Topper)

Students Enrolled for Higher Studies

SL no.	Name	Branch	Program	Institution
1	K.V.D. Pallavi	EEE (2020)	MS	SIMON Business School, University of Rochester, USA
2	Ritu Rani Kesari	CSE (2020)	MS	BITS Pilani (2020)
3	Etisha Sinha	ECE(2020)	PGDIM	NMIMS, Navi Mumbai
4	Debapriti Digdarshini Nayak	ECE(2020)	BM	XIMB
5	Rohit Bhushan Kumar	ECE(2020)	PGDIM	IIFT
6	Sivajeet Chand	IT (2020)	Msc/MS	Chalmers (Sweden), University of Leeds, University of Southampton; Cardiff University
7	Shenaz Begum	CSE	MBA	IIM Rothak
8.	Raj Jha	CSE	MTech	IISC Bangalore

Hackathon Achievements

Event Name	Regd.No	Name	Date	Venue	Position
Innovatione-ering Hackathon	1601209457	Prashant Ranjan - EEE	2 nd -4 th January 2020	IIT,Bombay	2 nd Prize
Innobuzz Hackathon	1601209457	Prashant Ranjan- EEE	16 th February 2020	VSSUT, Burla	1 st Prize
	1601209221	Adhyayan Pradhan- ECE			
	1601209531	Akansha Rani-EEE			
	1601209190	Smruti Pragya Dash-EEE			
Technova Hackthon	1601209457	Prashant Ranjan - EEE	6 th February 2020	IIT,Bhubaneswar	1 st Prize
	1601209221	Adhyayan Pradhan- ECE			
	1501209056	Abhishek Kumar- EEE			
Encoded Hackathon	1601209457	Prashant Ranjan - EEE	8 th February 2020	IIT,Bhubaneswar	1 st Prize
	1601209221	Adhyayan Pradhan- ECE			
CVRCE-Hackthon	1701209155	Nitesh Kumar-EEE	24 th January 2020	CVRCE,Bhubaneswar	3 rd Prize
	1701209341	Deepak Kumar Sharma			
	1701209314	Kshitiz			
	1701209212	Yashraj Mishra			
	1701209010	Utsav Kumar			
	1701209190	Megha das			

Achievements in Technical Project Competition/ Exhibition

Event Name	Regd.No	Name	Date	Venue	Position	Details of events
Meshmerize	1601209457	Prashant Ranjan-EEE	2 nd -4 th Jan 2020	IIT,Bombay	2 nd Prize	Robotics
Maze Solver	1601209457	Prashant Ranjan -EEE	2 nd -4 th Feb 2020	IIT,BBSR	1 st ,2 nd & 3 rd prize	Robotics
	1601209221	Adhyayan Pradhan-ECE				
	1501209056	Abhishek Kumar-EEE				
Drone Challenge	1601209457	Prashant Ranjan -EEE	2 nd -4 th Feb 2020	IIT,BBSR	1 st Prize	Robotics
	1601209221	Adhyayan Pradhan-ECE				

Event Name	Regd.No	Name	Date	Venue	Position	Details of events
Tech Expo	1601209457	Prashant Ranjan -EEE	2 nd -4 th Feb 2020	IIT,BBSR	1 st Prize	Project Exhibition
	1601209221	Adhyayan Pradhan-ECE				
	1501209056	Abhishek Kumar-EEE				
Arduinoob	1601209457	Prashant Ranjan -EEE	08.02.2020	IIT,BBSR	1 st Prize	Robotics
	1601209531	Akansha Rani-EEE				
Line Follower	1601209457	Prashant Ranjan -EEE	08.02.2020	IIT,BBSR	1 st & 2 nd Prize	Robotics
	1601209221	Adhyayan Pradhan-ECE				
UAV Killer	1601209457	Prashant Ranjan-EEE	14.02.2020	CET,BBSR	1 st Prize	Project Exhibition
Techweek 2020 innovation fair.	1601209024	Nafis Alam	Feb-20	Greater Noida Through Online	Cash Prize of Rs.5000.0	IoT based Pollution and weather monitoring system
	1601209030	Rishi Kumar				
JECRC Online Ideathon_COVID-19,JECRC Incubation centre, Jaipur,Rajsthan, April-2020	1601209414	Sradhasis Tripathy	Apr-20	JECRC Incumbati on Centre ,Jaipur,Ra jstan	1 st Prize	Online Ideathon_C OVID-19,
	1601209406	Moitrayee Sarkar				

Official Activities/ Events

The Chairman's Address

Chairman Mr. Joe Madiath addressed all staff members on 27th July 2019. Prof. Jaideep Talukdar (Principal) delivered the welcome address. Dr. Debabrata Kar (Dean Academics) presented a report on achievements of the academic year 2018-19. The Chairman, in his address, urged the staff members to continue their good work under autonomy to take the Institute to the next level. Dr. Saroj Kanta Misra (Director-in-charge) spoke on the appraisal process. Dr. Jayashree Das apprised the staff members on the new facilities in the Institute for research activities and proposed the vote of thanks.

Orientation and Welcome Function 2019

The Orientation and Welcome function for the newly admitted B. Tech. Students were organized on 2nd and 3rd August 2019. The same for the MCA students were organized on 6th August 2019. This time some new agenda were added to the agenda of the orientation. Mr. Abhijit Sen spoke on the needs of Industry and advised the new students to plan and prepare accordingly. Dr. Saroj Rout spoke on the career perspectives of Electronics stream.

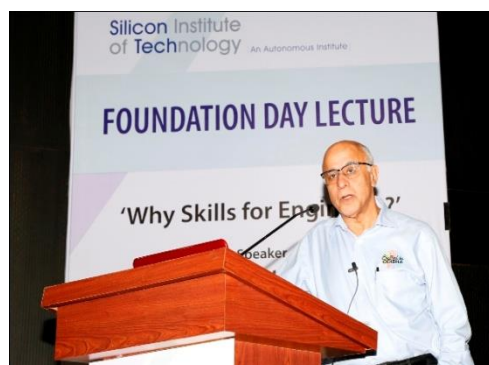
Independence Day Celebration

The Institute celebrated the Independence Day on 15th August 2019. The Principal Prof. Jaideep Talukdar hoisted the National Flag and addressed the gathering of students and staff members present on the occasion.



Foundation Day

The Institute celebrated its 18th Foundation Day on 10th September 2019. Two eminent speakers delivered talks on this occasion. Shri Subroto Bagchi, Chairman Odisha Skill Development Authority & Co-Founder of Mindtree, delivered the Foundation Day Lecture on “Why Skills for Engineers?” Shri. Seshadri Venkatesan, Lieutenant (Ex Indian Navy), delivered a talk on “What is the meaning of success and how one should approach career growth?”



Annual Parents’ Meet

The 18th Parents Meet was held on 11th January 2020. Dr. Jaideep Talukdar, Principal, delivered the welcome address and Dr. Debabrata Kar, Dean (Academics) presented the Activities and Achievements of 2019. Dr. Saroj Kanta Misra, Dean (Administration & Students Affairs) addressed the gathering on placement, higher study and other issues. Around 100 parents participated in the meet.



The Republic Day Celebration

The Republic Day was celebrated on 26th January 2020. Prof. Jaideep Talukdar (Principal) hoisted the National Flag followed by recital of the National Anthem. Prof. Talukdar addressed the gathering

Matrubhasha Diwas (International Mother Language Day)

Silicon celebrated the Matrubhasha Diwas on 20th February 2020 to commemorate the International Mother Language Day – a day dedicated to promote the dissemination of mother tongues and fuller wareness of linguistic and cultural traditions throughout the world and to inspire solidarity based on understanding, tolerance and dialogue. The programme witnessed a host of speakers, both students and staff, who actively participated in speech, poem recitations and poster making competitions.



International Womens Day celebration

Silicon observed the International Women's Day on 14th March 2020. The event was graced by Ms. Sagarika Nath, IPS, DCP (Traffic), Police Commissionerate, Bhubaneswar-Cuttack. She addressed the audience, which comprised of students and staff, on the theme of this year's International Women's Day – #Each for Equal: An Equal World is an Enabled World. She spoke about the disparities prevalent against women in our society and that men have a greater role in enabling women empowerment.



International Yoga Day

To celebrate International Yoga Day, a Yoga Session was organized on 22nd June 2020 within Silicon premises. The session commenced with a talk on the importance of Yoga in Life followed by the Yoga postures demonstrated by the yoga teacher of the institute, Mr. Prasanta Kumar Mallik. There were around 40 attendees including faculty members, supporting staff members and students.



Activities of the Sports & Cultural Committee

Alumni Meet

The 11th Alumni Meet was organized on 27th December 2019 inside the campus. There were 200 alumni members from different passing out batches attended the meet. The program started on an auspicious note by the Watering of a plant by the dignitaries. There was a welcome Odissi dance

performance by artists from Om Kalinga Parisad followed by different cultural programs and fun events.



The Annual Athletic Meet:

The 13th Annual Athletic Meet was held on 18th January 2020 at Silicon. The meet commenced with inauguration ceremony, followed by oath taking ceremony by Silicon Sports Secretary Mr. Roshan Sharma along with the participants. Various track and field events were conducted and judged with the help of external judges and under the supervision of Sports committee members and other deputed staff.



Cultural Nite 2020:

The Campus Life Co-ordination Committee (CCC) of Silicon Residence organized its annual cultural event viz., Cultural Nite-2020 on 18th January 2020. Students from all the years performed in different activities like dance, song, traditional wear ramp walk, hip-hop dance and much more. Their performance was much appreciated by the audience.



Staff Award Function:

The Staff Award Function of Silicon Institute of Technology, Bhubaneswar was organized by the Staff Welfare Committee on 25th January 2020. 44 staff members received Long Service Awards for completing 20 years, 15 years and 10 years. Besides this, 11 faculty members were also felicitated for completion of their PhD degrees. Prizes for sports and cultural activities conducted earlier during the year were also distributed. During the program, varied cultural programs viz. singing, dancing and drama were presented by staff members.



Arabinda Misra Memorial Quiz 2019:

The Silicon Quiz Club organized a Quiz Fest in February 2020. The Fest had two events viz. 'Aurabinda Misra Memorial Quiz' and FLAMES Quiz. The 'Aurabinda Misra Memorial Open Quiz 2020' was organized by the Silicon Quiz Club on 1st February, 2020. 60 different teams from corporate houses, engineering and medical colleges participated in the prelims round. The final round was conducted by quizmaster Mr. Sanket Tripathy from XIMB. The winners were Saransh Mohapatra (Infosys, BBSR) and Mukti Swaroop Pradhan (CET, BBSR). The first runners-up were Adarsh Kumar Mohapatra (AIIMS, BBSR) and Ranjan Anil Kumar (AIIMS, BBSR). The second runners-up were Toyad Pattanaik (SIT, BBSR) and Ritwik Tripathy (SIT, BBSR).

Talk by Brahma Kumari Sabitha

Brahma Kumari Sabitha from Prajapita Brahma Kumari Ishwariya Vishwa Vidyalaya, Mount Abu, delivered two separate talks for students and staff members on 8th February 2020 on different topics. While she addressed the students on 'Career and Power of Silence' the topic for the staff members was 'Anger Management'.

Inter-College Youth Festival

An inter-college cultural event (youth festival) was organized at Silicon on 16th February 2020, under the mandate of AICTE, to celebrate the cultural collaboration with different states of India. This event was part of the Ek Bharat Shreshth Bharat program, where there were cultural renditions in dance, music, song – all of Indian cultural, folk and popular music origins. Students from various institutes participated in this event to make it a grand success.



Inter- College Sports Meet 2020

The 13th Inter-College Sports Meet was organized at Silicon from 17th - 20th February 2020. Many colleges like IIIT Bhubaneswar, KIIT University, Bhubaneswar, SriSri University, Cuttack participated in this meet where various events like Volleyball, Basketball, Football, etc. were conducted. The meet was inaugurated by the Director Dr. Saroj Kanta Mishra and Principal Dr. Jaideep Talukdar on 17th February 2020. The matches played with true sportsman spirit, were judged by external referees in the presence of internal staff and sports committee members. The prize distribution ceremony was held on 20th February, 2020 wherein trophies and cash prizes were distributed to winner and runners-up teams under different event categories

Zygon-2020:

The Annual Function of the Institute, Zygon-2020 was organized from 21st to 23rd February 2020. The three days of the Annual Function had several cultural renditions in the genre of song, dance, musical band, ramp and theatrical performance. There was a well scrutinized series of events in the categories of solo and group songs, dance performances, ramp show, literary events and performance by ZEAL (Zenesis of Enthusiasm About Life) club. The third day of the fest witnessed the Battle of the Bands - an inter-college band competition, along with the Silicon Band, and an event in rap music.



Noesis-2020:

The Annual Tech Fest of the Institute, Noesis 2019 was conducted from 22nd to 24th February 2020. There were more than 1500 students from Silicon and other colleges. The regular events included Robotics, Coding, Circuit Design, Technical quizzes, Idea Generation etc. This year Noesis 2020 came up with new flagship events like Drone Tussle (Robotic Event) and Talk Show (Motivational and Technical Talk). The Tech Fest included a dedicated FUNZONE set up in front of the workshop that included events like Face painting, Balloon fighting, Flash Mob and Tattoo Artist.



Institute Achievements/Recognitions

Best Technical Institute Award

Silicon Institute of Technology received the “Best Technical Institute Award in Research & Development” by Ever Green Forum on Engineers’ Day in September, 2019

Best Engineering College Award

Silicon Institute of Technology has been awarded as the “Best Engineering College” by Indian Society for Technical Education for the second consecutive year in 2019. It had earlier received this honor in 2018 apart from the award for its distinguished contribution in the area of technical education in 2016.

Best Performing Institute Innovation Council (IIC) Award

Silicon Institute of Technology has been recognized and has been awarded as the best performing Institute Innovation Council (IIC) of the Eastern Zone during “First Annual Innovation Festival of MHRD’s Innovation Cell” held on 11th September 2019 at AICTE Headquarters, New Delhi. For the year 2018-19 IIC has earned 4 Golden stars. IIC of Silicon Institute of Technology, Bhubaneswar was at the top among the institute from eastern region.



Business Incubator (BI) Approval by MSME

Silicon has been approved as Business Incubator (BI) by MSME, Govt. of India under the scheme "Support for Entrepreneurial and Managerial Development of MSMEs through Incubator" in December, 2019.

CSI Student Chapter Awards

Silicon CSI Student Chapter was awarded with the Best Accredited Student Branch Award–Region IV and the Largest Student Branch Award–Region IV for the session 2017-19 in the Annual Convention of CSI 2020 held at KIIT University, Bhubaneswar on 18th January 2020 in recognition of its significant contribution to CSI activities.

NIRF Rankings 2020

Silicon Institute of Technology has been ranked 179 by National Institutional Ranking Framework (NIRF), Ministry of Human Resource Development (MHRD), Govt. of India in the ‘Engineering’ category. We are one among the 7 engineering institutes from Odisha in the top 200 rank.