



Annual Report

2022-23

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. In the past two decades, Silicon has added many commendable achievements to its cap such as UGC autonomy, NBA accreditation of 3 UG programs and NAAC - A grade. Also, the Ministry of Education (MoE), Government of India placed SiliconTech under the band 151-300 in the NIRF Rankings 2023 for Innovation. It is satisfying to see this leap over succeeding years in the teaching-learning standards and in the fields of research and innovation. 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 more and more faculty members getting actively engaged in research work-completed their PhDs, guiding ph.D. Scholars, publishing research papers & patents, attending and organizing conferences, workshops, seminars, etc. Also, the collaborative activities of the Institute with various industries are growing and giving a new direction towards promoting research and development at Silicon.

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 two decades. The sprawling campus is abuzz with academic and extra-curricular activities of more than 2000 students under the guidance of nearly 161 Teaching staff members and 242 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 8650 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. Ramananda Mishra | (Trustee) |
| 5. | Mr. Jitendra Prasad Singh | (Trustee) |
| 6. | Dr. Manoj Fogla | (Trust Nominee) |
| 7. | Prof. Sunil Sarangi | (Educationist) |
| 8. | Prof. B. K. Das | (Educationist) |
| 9. | Prof. Srikanth Sundarajan | (Industrialist) |
| 10. | Mr. Devesh Sinha | (Industrialist) |
| 11. | Mr. Ashok Basa | (Industrialist) |
| 12. | Prof. Sanjib Tokekar | (UGC Nominee) |
| 13. | Mr. Tapan Kumar Satapathy | (Govt. Nominee) |
| 14. | Dr. Bibhuti Bhusan Pati | (BPUT Nominee) |
| 15. | Prof. Jaideep Talukdar | (Staff Nominee) |
| 16. | Prof. Saroj Kanta Misra | (Secretary GB) |

Our 5L Quality Policy

We are committed to offer the best academic services to our learners through continuous innovative practices by providing high quality Lectures, state-of-the-art Laboratories, excellent Library facilities and ensuring its utilization through experiential Learning and Leadership.

Silicon Best Practices

Over a period of 21 years, Silicon has evolved its set of best practices that has 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, movieshows 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 64,500+ 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 1 Gbps with Tata Teleservices Pvt. 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 complex including a state-of-the-art running track and venues for different outdoor games like football, cricket and volley ball, along with dedicated basketball 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 1977 residents in the campus. The girls' hostel can accommodate 671 residents and the boys' hostel can accommodate 1306 residents. All the three hostels are fitted with modern amenities and out of the total hostel seats 379 (111-girls, 268-boys) are AC.
- 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 11 different programs of study in the fields 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 the Directorate of Technical Education & Training (DTET), 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, three of the UG programs - CSE, ECE and EEE are accredited by NBA, and has a Grade A accreditation from NAAC.

UG Programs

Sl. No.	Program Name	Intake
1	B. Tech. in Computer Science & Engineering	180
2	B. Tech. in Computer Engineering	60
3	B. Tech. in Computer Science & Technology	60
4	B. Tech. in Electrical & Electronics Engineering	150
5	B. Tech. in Electronics & Communication Engineering	180
6	B. Tech. in Electronics & Instrumentation Engineering	60

PG Programs

Sl. No.	Program Name	Intake
1	Master in Computer Applications	60
2	M. Sc. (Data Science)	30
3	M.Tech. in Electronics & Communication Engineering	9
4	M.Tech. in Computer Science & Engineering	9
5	M.Tech. in Electrical & Electronics 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: 2022-23

Program	Branch	Sanctioned Intake	Admitted Student		Total	Regular		Lateral	
			Regular	Lateral		Male	Female	Male	Female
B.Tech.	CSE	180	231	23	254	167	64	16	7
	CEN	60	78	5	83	50	28	4	1
	CST	60	78	6	84	53	25	4	2
	ECE	180	214	7	221	123	91	4	3
	EEE	150	165	6	171	120	45	5	1
	EIE	60	31	0	31	17	14	0	0
M.Tech.	CSE	9	1	0	1	1	0	0	0
	ECE	9	0	0	0	0	0	0	0
	EEE	9	0	0	0	0	0	0	0
MCA	MCA	60	75	0	75	49	26	0	0
M.Sc.	DS	30	30	0	30	18	12	0	0
Total		807	903	47	950	598	305	33	14

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 Induction 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 2022-

23 and awards were made under the categories:

Sl.No	Name of Scholarship	Total Students
1	E-Medhabruti Scholarship-Fresh	49
2	Post Matric Scholarship-Fresh & regular	166
3	E-Kalyan Jharkhand-Fresh & Regular	0
4	Credit Card Loan-Bihar	4
Total		219

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 in exams is generally good which gets demonstrated by the high marks they secure, resulting in good CGPAs. On an average, a vast majority 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 by their qualifying in 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 2022-23, the library resources were augmented by acquiring 90 new titles and 191 volumes making a total resource repository of 9992 titles and 39691 volumes. There are 41450 titles of E-books under Proquest e-book central subscription. The library also subscribes to E-Resources: 212 journals and 25337 Conference proceedings from IEEE (ASPP + POP), 291 journals from Science Direct (Elsevier) and 175 Journals (Engineering), 99 Journals (Computer science), 178 Journals (Chemistry & Material Science) from Springer Nature Collections.

Academic Cycle

There are a number of programs which run concurrently at the Institute, to the formation of an

academic cycle which includes a specified number of teaching days. The number of teaching days, excluding examinations days, holidays, and suspended classes for the different semesters, odd and even during 2022-23 are as follows:

Odd Semester

1st Semester - 71 Days

3rd Semester - 67 Days

5th Semester - 68 Days

7th Semester - 68 Days

Even Semester

2nd Semester – 71 Days

4th Semester - 71 Days

6th Semester - 68 Days

8th Semester - 68 Days

Academic Performance

Program	Year	Branch	Appeared	Passed	Failed	%Success
B. Tech.	2019-2023	CSE	212	206	6	97.17
		EEE	121	105	16	86.78
		ECE	185	175	10	94.59
		EIE	32	31	1	96.88
	2018-2022	EIE	15	15	0	100.00
		CSE	197	197	0	100.00
		EEE	93	92	1	98.92
		ECE	150	148	2	98.67
	2017-2021	AEI	37	37	0	100.00
		CSE	192	192	0	100.00
		EEE	125	125	0	100.00
		ECE	167	167	0	100.00
	2016-2020	AEI	57	57	0	100.00
		CSE	120	120	0	100.00
		EEE	120	119	1	99.17
		ECE	185	185	0	100.00
		IT	55	55	0	100.00
	2015-2019	AEI	47	47	0	100.00
		CSE	117	117	0	100.00
		EEE	123	122	1	99.19
		ECE	169	168	1	99.41
		IT	53	53	0	100.00
	2014-2018	AEI	36	35	1	97.22
		CSE	97	97	0	100.00
		EEE	113	113	0	100.00
		ECE	151	150	1	99.34

		IT	44	44	0	100.00
MCA	2021-2023	MCA	60	60	0	100.00
	2020-2022	MCA	58	55	3	94.83
	2019-2022	MCA	30	30	0	100.00
	2018-2021	MCA	53	51	2	96.23
	2017-2020	MCA	50	50	0	100.00
	2016-2019	MCA	51	51	0	100.00
	2015-2018	MCA	32	32	0	100.00
M.Sc. (DS)	2021-2023	DS	12	12	0	100.00
	2020-2022	DS	16	16	0	100.00
M.Tech.	2018-2020	EEE	1	1	0	100.00
	2019-2021	CSE	2	2	0	100.00
		EEE	1	1	0	100.00
	2020-2022	CSE	1	1	0	100.00
	2021-2023	CSE	2	1	1	50.00
		ECE	1	1	0	100.00
		EEE	3	3	0	100.00

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.

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 a number of leading organizations both in academia and industry to enhance its research and consultancy output.

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 161 faculty members of the Institute, 68 hold Ph. D. Degrees. Furthermore, 12 have submitted their thesis, 43 are continuing with their Ph.D. research and remaining are in the process of registration under various universities.

Professors	15
Associate Professors	40
Assistant Professors	106
Total	161

- 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 2022-23, the following faculty members were continuing their research under different universities while on study Leave:

Name	Program of Study (Ph.D. /Post Doc)	Institution
Jagadish Patra	Ph.D.	Siksha 'O' Anusandhan University
Monorama Swain	Post Doc	UCPH, Denmark
Sadhna Malik	Ph.D.	IIT, Kharagpur
Satish Das	Ph.D.	NIT, Goa
Utpal Das	Ph.D.	NIT, Raipur

Faculty Members Awarded with a Ph. D. Degree

Sl. No.	Name/Designation /Dept.	Thesis Title	Date of Award	Awarding University/Institution
1	Sasmita Parida (Assistant Professor, CSE)	Resource Management using Optimization Techniques in Cloud Environment	10.09.2022	Rama Devi Women's University
2	Saumyaranjan Dash (Sr. Assistant Professor, CSE)	Efficient Resource Management in Edge Computing for Delay-Sensitive Applications	27.10.2022	KIIT Deemed-to-be University, Bhubaneswar
3	Swarupa Roy (Assistant Professor, BSH)	Operators on Weighted Bergman Spaces	01.11.2022	Utkal University
4	Bhagwat Prasad Chaudhury (Sr. Assistant Professor, CSE)	Air Quality Monitoring and Prediction using IoT Based Framework and Cloud Services	25.11.2022	SOA Deemed-to-be University, Bhubaneswar
5	Nibedita Pati (Sr. Assistant Professor, EEE)	Robust Performance Analysis of Linear and Non-Linear Controllers for a double stage stand alone PV system	02.12.2022	KIIT Deemed-to-be University, Bhubaneswar
6	Chittaranjan Behera (Associate Professor, BSH)	On Oscillation and Asymptotic Behaviour of Solutions of Neutral Difference Equations	17.12.2022	BPUT, Rourkela
7	Abhisek Sethy (Assistant Professor, CSE)	Off-Line Handwritten Character Recognition using Soft Computing Techniques	07.01.2023	BPUT, Rourkela
8	Ajit Kumar Behera (Sr. Assistant Professor, CSE)	Hybrid Intelligent System for Software Reliability Predictions	03.03.2023	Utkal University
9	Brijesh Kumar Jha (Assistant	Estimation of Reliability and Hazard Rate from a Selected	19.04.2023	SOA Deemed-to-be University,

Sl. No.	Name/Designation /Dept.	Thesis Title	Date of Award	Awarding University/Institution
	Professor, CSE)	Exponential and Pareto Population		Bhubaneswar
10	Mukti Routray(Sr. Assistant Professor, CSE)	Protein Remote Homology Detection (PRHD) based on Computational Intelligent Techniques	27.06.2023	IIIT, Bhubaneswar

Publications:

Journal Publications

1. **Mahendra P. Agasty**, “Exploring the Impact of Covid-19 on Travel and Tourism Sector”, IOSR Journal of Economics and Finance, Vol. 13, No. 6, pp. 51-56, July 2022.
2. Santosh Kumar Sahoo, **Sushant Kumar Pattnaik**, **Soumya Ranjan Samal**, Chinmay Kumar Nayak, Jitendra Kuma Das, and Vladimir Poulkov, “STeSH: Intelligent Speech Technology Enabled Smart Home Automation Using IoT”, Journal of Mobile Multimedia, Vol. 18, No. 6, pp. 1471-1496, July 2022.
3. M. M. Muduly, P.K. Rath, **Tusar Parida**, G.C. Dash, and K. Swain, “Study of an Unsteady Fluctative MHD flow of wlasticovisocus liquid past a vertical porous plate, Heat Transfer, Willey, 2022.
4. M. M. Muduly, K. Swain, P.K. Rath, **Tusar Parida**, and G.C. Dash, “Unsteady thermally radiative and chemically reactive viscoelastic fluid flow past a vertical porous plate with a heat source”, Heat Transfer, Willey, 2022.
5. Aliva Priyadarshini, Sateesh Kumar Pradhan, **Samaleswari Prasad Nayak**, and Suchismita Rout, “MSLB: Multi-level scheduling for achieving load balancing in Cloud Environment”, NeuroQuantology, Vol. 20, No. 8, pp. 8029-8040, July 2022.
6. **Pradyumna Kumar Tripathy**, Anurag Shrivastava, Varsha Agarwal, Devangkumar Umakant Shah, Chandra Sekhar Reddy L., and S.V. Akilandeewari, “Federated Learning Algorithm Based On Matrix Mapping For Data Privacy over Edge Computing”, International Journal of Pervasive Computing and Communications, July 2022, DOI: 10.1108/IJPCC-03-2022-0113.
7. **Mukti Routray**, SwatiVipsit, Amrita Sundaray, and Srinidhi Kulkarni, “DeepRHD: An efficient Hybrid feature Extraction technique for protein remote homology detection using Deep learning strategies”, Computational Biology and Chemistry, August 2022, DOI: 10.1016/j.compbiolchem.2022.107749.
8. **Bimal Kumar Meher** and Ruhul Amin, “A location-based multi-factor authentication scheme for mobile devices”, International Journal of Ad Hoc and Ubiquitous Computing, Vol. 41, No. 3, pp 181-190, August 2022.

9. **Saumyaranjan Dash**, Raj Kumar Parida, Jyotiprakash Dash, Asif Uddin Khan, and Santosh Kumar Swain, "Optimal Omnidirectional Offloading in Federated Cloud-Fog Systems with Cost Minimization", *Journal of Theoretical and Applied Information Technology*, Vol. 100, No. 17, pp. 5515-5525, September 2022.
10. **Soumya Ranjan Samal**, Kaliprasanna Swain, Shuvabrata Bandopadhyaya, Nikolay Dandanov, Vladimir Poulkov, Sidheswar Routray, and Gopinath Palai, "Dynamic Coverage Optimization for 5G Ultra-dense Cellular Networks Based on Their User Densities", *Wireless Personal Communications*, Springer, September 2022.
11. G. Simi Margarat, G. Hemalatha, **Annappurna Mishra**, H. Shaheen, K. Maheswari, S. Tamijeselman, U. Pavan Kumar, V. Banupriya, and Alachew Wubie Ferede, "Early Diagnosis of Tuberculosis Using Deep Learning Approach for IOT Based Healthcare Applications", *Computational Intelligence and Neuroscience*, Vol. 2022, Article ID 3357508, September 2022.
12. **Bimal Kumar Meher**, Ruhul Amin, Ashok Kumar Das, and Muhammad Khurram Khan, "KL-RAP: An Efficient, Key-Less RFID Authentication Protocol Based on ECDLP for Consumer Warehouse Management System", *IEEE Transactions on Network Science and Engineering*, IEEE, Vol. 9, No. 5, pp. 3411-3420, September 2022.
13. Manoj Kumar Naik, **Monorama Swain**, Rutuparna Panda, and Ajith Abraham, "Novel Square Error Minimization-Based Multilevel Thresholding Method for COVID-19 X-Ray Image Analysis Using Fast Cuckoo Search", *International Journal of Image and Graphics*, October 2022.
14. R. Panda, **Monorama Swain**, M. K. Naik, S. Agrawal, and A. Abraham, "A Novel Practical Decisive Row-Class, Entropy-Based Technique for Multilevel Threshold Selection Using Opposition Flow Directional Algorithm", *IEEE Access*, Vol. 10, pp. 110473-110484, October 2022.
15. Raviteja Buddala, Siba Sankar Mahapatra, and **Manas Ranjan Singh**, "Solving multi-objective flexible flow-shop scheduling problem using teaching-learning-based optimisation embedded with maximum deviation theory", *International Journal of Industrial and Systems Engineering*, Vol. 42, No. 1, October 2022.
16. **Sushant Kumar Pattnaik**, Rama Prabha K.P, Gowtham M S, D. Anandhasilambarasan, Somanjoli Mohapatra, S. Balaji, Gaurav D Saxena, "Development of Elegant Parking Platform Based on Internet of Things", *Advanced Engineering Science*, Vol. 54, No. 2, pp. 6031-6042, November 2022.
17. S Manimekalai, C. Sharanya, Saniya Bhalerao, G. Govindharaj, Javangula Vamsinath, **Sushant Kumar Pattnaik**, D. Stalin David, "Mathematical Descriptors for Drug Design using Python Program", *Journal of Pharmaceutical Negative Results*, Vol. 13, No. 9, December 2022.
18. **Sushant Kumar Pattnaik**, Subhakar Mattupalli, Prakash Chandra Behera, T. Saravanan, Saniya Bhalerao, S. Mohan, and D. Stalin David, "Design and Development of IoT based Water and Calamity Management Technique by Implementing a Hybrid Classification Approach", *Advanced Engineering Science*, Vol. 54, No. 2, pp. 5661-5678, December 2022.

19. J. Jena, T. P. Das, E. Mohapatra, **Sanghamitra Das**, and J. Nanda, "Process Induced Stress Optimization for Compressively Stressed p-Channel FinFET at 7N", International Journal of High Speed Electronics and Systems, Vol. 30, 2140005, December 2022.
20. **Bikram Keshari Mishra, Pradyumna Kumar Tripathy**, Saroja Kumar Rout, and Chinmaya Ranjan Pattanaik, "An Enhanced Image Segmentation Approach for Detection of Diseases in Fruit", International Journal of Information System Modeling and Design, Vol. 13, No. 7, December 2022.
21. Mamatarani Das, Mrutyunjaya Panda, and **Shreela Dash**, "Enhancing the Power of CNN Using Data Augmentation Techniques for Odia Handwritten Character Recognition", Advances in Multimedia, Vol. 2022, Article ID 6180701, December 2022.
22. K. B Mohanty, A. Sahu, and **Rabi Narayan Mishra**, "A Discrete Linearization-Based Predictive Intelligence Technique for Direct Torque and Flux Control of Induction Motor Drive with Feedback Linearization", Electric Power Components and Systems (EPCS), Taylor and Francis, Vol. 51, No. 1, pp. 92-111, January 2023.
23. **Arbab Pal**, Aniruddha Bhattacharya, and Ajoy Kumar Chakraborty, "Planning of EV Charging Station with Distribution Network Expansion Considering Traffic Congestion and Uncertainties", IEEE Transactions on Industry Applications, January 2023, DOI: 10.1109/TIA.2023.3237650.
24. Namita Das and **Swarupa Roy**, "On a class of unitary operators on weighted Bergman spaces", Filomat, Vol. 37, No. 7, pp. 2013-2026, January 2023.
25. **Ch. Sanjeev Kumar Dash, Ajit Kumar Behera**, Satchidananda Dehuri, and Ashish Ghosh, "An outliers detection and elimination framework in classification task of data mining", Decision Analytics Journal, Elsevier, Vol. 6, 100164, January 2023.
26. **Suvashree Suvadarshinee**, "Analyzing the Impact of Gender Disparity through Psychodynamics in Women Archetypes", TIMER, Vol. 1, No.1, pp. 27-40, January 2023.
27. Stitapragyan Lenka, Sateesh Kumar Pradhan, **Samaleswari Prasad Nayak**, and Sarat Chandra Nayak, "Forecasting Quality of Service (QoS) Parameters of IoT based Web Services with an Artificial Electric Field Algorithm trained Artificial Neural Network", Karbala International Journal of Modern Science, Vol. 9, No. 1, Article No. 13, January 2023.
28. Madhurima Moulik, **Debangana Das**, and Runu Banerjee Roy, "Detection of theophylline using Samarium OXIDE Nanoparticles ingrained graphite electrode", Nano LIFE, Vol. 13, No. 2, February 2023.
29. **Subhashree Ojha**, Tanutrushna Panigrahi, and Edward P Jones's, "Style Of Geo-Tagging: An Approach to Analytical Narration", Res Militaris, Vol. 13, No. 3, March 2023.
30. K.P. Swain, S. Das, **Soumya Ranjan Samal**, S.K. Sahu, and G. Palai, "Realization of 20 Monochromatic Laser Beams Using a Photonic Crystal (PhC) Structure Via the Principle of Filtering", Lasers in Engineering, Vol. 54, No. 1, pp. 39-49, March 2023.

31. **Subhashree Ojha** and Tanutrushna Panigrahi, "The Cornucopia of Characters in Edward P Jones's *Lost in The City* and *All Aunt Hagar's Children*", *European Journal of Chemical Bulletin*, Vol. 12, No. 1, April 2023.
32. **Narayan Nayak**, Soumya Ranjan Das, Tapas Kumar Panigrahi, Himansu Das, Soumya Ranjan Nayak, Krishna Kant Singh, S. S. Askar and Mohamed Abouhawwash, "Overshoot Reduction Using Adaptive Neuro-Fuzzy Inference System for an Autonomous Underwater Vehicle", *MATHEMATICS*, Vol. 11, No. 8, April 2023.
33. Raviteja Buddala, Siba Sankar Mahapatra, **Manas Ranjan Singh**, Bhanu Chandar Balusa, and Venkata Phanikrishna Balam, "Improved TLBO and JAYA algorithms to solve new fuzzy flexible job-shop scheduling problems", *Journal of Industrial Engineering International*, Springer, May 2023.
34. E. Mohapatra, D. Jena, **Sanghamitra Das**, C. K. Maiti, and T. P. Dash, Design and optimization of stress/strain in GAA nanosheet FETs for improved FOMs at sub-7 nm nodes", *Physica Scripta*, Vol. 98, No. 6, May 2023.
35. Abanikanta Pattanayak, **Aditya Acharya**, and **Judhisthir Dash**, "Real-time enhancement using multi-linear adaptive gamma correction (MLAGC) for better night driving", *Journal of Real-Time Image Processing*, May 2023. DOI: 10.1007/s11554-023-01320-9.
36. Abanikanta Pattanayak, **Aditya Acharya**, and Nihar Ranjan Panda, "Dark image enhancement using adaptive piece-wise sigmoid gamma correction (APSGC) in presence of optical sources", *Multimedia Tools and Applications*, Springer, May 2023, DOI: 10.1007/s11042-023-15615-3.
37. **Pradyumna Kumar Tripathy**, Mohammad Shabaz, Abdelhamid Zaidi, Ismail Keshta, Uttam Sharma, Mukesh Soni, Anurag Vijay Agrawal, Renato R. Maaliw III, and D.P. Sharma, "Policy conflict detection approach for decision-making in intelligent industrial Internet of Things", *Computers and Electrical Engineering*, Elsevier, Vol. 108, 108671, May 2023.
38. **Ch. Sanjeev Kumar Dash**, Sarat Chandra Nayak, **Ajit Kumar Behera**, and Satchidananda Dehuri, "A Neuro-Fuzzy Predictor Trained by an Elitism Artificial Electric Field Algorithm for Estimation of Compressive Strength of Concrete Structures", *Informatica*, Vol. 47, No. 5, May 2023.
39. L. N. B. Srinivas, A. M. Viswa Bharathy, Sravanth Kumar Ramakuri, **Abhisek Sethy**, and Ravi Kumar, "An optimized machine learning framework for crop disease detection", *Multimed Tools and Applications*, Springer, May 2023, DOI: 10.1007/s11042-023-15446-2.
40. Mrutyunjay Panda, **Bidyadhar Padhi**, and **Mahendra Prasad Agasty**, "A Study on Financial Inclusion and Economic Well-Being in Rural Areas with Special Reference to Dhenkanal District", *International Journal of Research Publication and Review*, Vol. 4, No. 6, pp. 2452-2456, June 2023.
41. Sarita Mishra, **Sudhansu Mohan Biswal**, **Biswajit Baral**, and **Sudhansu K. Pati**, "Design and Investigation of a Novel surrounded gate junction less graded channel gate stack MOSFET

with Improved DC and Analog/RF Parameters”, Transactions on Electrical and Electronic Materials (TEEM), Springer, Vol. 1, No. 1, June 2023.

42. S. Nag, **Debangana Das**, and R. B. Roy, “Voltammetry Application of Molecularly Imprinted Polyacrylamide as Vanillin Receptor in Desserts”, IEEE Sensors Journal, 2023, DOI: 10.1109/JSEN.2023.3235933.
43. M. Moulick, **Debangana Das**, S. Nag, B. Tudu, R. Bandyopadhyay and R. B. Roy, “Molecularly imprinted polymer based electrode for tannic acid detection in black tea”, IEEE Sensors Journal, 2023, DOI: 10.1109/JSEN.2023.3240069.
44. **SatyanandaChampati Rai, Samaleswari P. Nayak**, Biswaranjan Acharya, Vassilis C. Gerogiannis, Andreas Kanavos, and Theodor Panagiotakopoulos, “ITSS: An Intelligent Traffic Signaling System Based on an IoT Infrastructure”, Electronics, Vol. 12, No. 5, 2023.
45. **Chittaranjan Mohapatra**, and Nibedita Adhikari, “Robust Rectilinear Steiner Tree Construction: A Multi Objective Optimization Using Genetic Algorithm”, Semiconductor Optoelectronics, Vol. 42, No. 1, pp. 1215-1233, 2023.
46. Shubhashree Sahoo, **Rabindra Kumar Dalei**, Subhendu Kumar Rath, and Uttam Kumar Sahu, “Selection of PSO parameters based on Taguchi design-ANOVA- ANN methodology for missile gliding trajectory optimization”, Cognitive Robotics, Vol. 3, pp. 158-172, 2023.
47. Shubhashree Sahoo, **Rabindra Kumar Dalei**, Subhendu Kumar Rath, and Uttam Kumar Sahu, “Selection of PSO parameters based on Taguchi design-ANOVA- ANN methodology for missile gliding trajectory optimization Cognitive Robotics”, Elsevier, Vol. 3, pp. 158-172, June 2023.

Conference Proceedings Published

1. S. K. Sahoo, C. K. Nayak, **Sushant Kumar Pattnaik, Soumya Ranjan Samal**, S. Bandopadhyaya and J. K. Das, “Automatic QoS Based Multicast Communication System in MANET”, In proc: 2021 IEEE International Conference on Signal Processing, Information, Communication & Systems (SPICSCON), IEEE, pp. 96-100, September 2022.
2. Ayusee Swain, Kaliprasanna Swain, **S. K. Swain, Soumya Ranjan Samal**, and G. Palai, “Automated Test Case Prioritization Using Machine Learning”, In proc: Meta Heuristic Techniques in Software Engineering and Its Applications, Springer, pp. 200–208, October 2022.
3. **Narayan Nayak**, Bright Keswani, Dipak Ranjan Nayak, Pramod Sharma, **Ambarish G Mohapatra**, and Ashish Khanna, “Fiber Bragg grating temperature sensor and calibration scheme in high magnetic field environment: An application for aluminium electrolysis cell in potline”, In proc: International Conference on Computing, Communication, and Intelligent Systems (ICCCIS), IEEE, pp. 86-90, November 2022.
4. **Narayan Nayak**, Bright Keswani, Dipak Ranjan Nayak, Pramod Sharma, **Ambarish G Mohapatra**, and Ashish Khanna, “Performance evaluation of DP-QPSK modulation for underwater optical wireless communication using a green light propagation”, In proc: OITS

- International Conference on Information Technology (OCIT), IEEE, pp. 428-432, December 2022.
5. Dwarika Nath Choudhury and **Narayan Nayak**, "An Effective Optimization of EMG Based Artificial Prosthetic Limbs", In proc: International conference on innovations in intelligent computing and communications (ICIICC 2022), Springer, pp. 157–171, December 2022.
 6. **Chittaranjan Mohapatra** and B. N. Bhramar Ray, "A Survey on Large Datasets Minimum Spanning Trees", In proc: International Symposium on Artificial Intelligence, Springer, pp. 26-35, January 2023.
 7. Sachin Vasant Chaudhari Sanjeeva Polepaka, Mohd. Shaikhul Ashraf, **Ramakrushna Swain**, AnanthnathGvs, and Ravi Kumar Bora, "Bayesian Optimization with Deep Learning based Crop Type Classification on UAV Imagery", In proc: International Conference on Augmented Intelligence and Sustainable Systems (ICAISS), IEEE, pp. 296-302, January 2023.
 8. Prasanta Kumar Khuntia, **Biswajit Baral**, **Sudhansu Mohan Biswal**, and **Sudhansu Kumar Pati**, "III-V Heterostucture Transistor with Underlap: A Comparitive Study and Performance Investigation", In proc: IEEE International Conference of Electron Devices Society Kolkata Chapter (EDKCON),IEEE, pp. 338-339, February 2023.
 9. Kishore Chandra Singh, **Sudhansu Mohan Biswal**, **Biswajit Baral**, **Satish Kumar Das**, and Prasanta Kumar Khuntia, "Study on Sensitivity Parameters of Staggered Heterojunction Gate Stack Tunnel FET Biosensor", In proc: IEEE International Conference of Electron Devices Society Kolkata Chapter (EDKCON), IEEE, pp. 632-636, February 2023.
 10. **Satish Kumar Das**, **Sudhansu M. Biswal**, Lalat Indu Giri, and Kishore C. Singh, "Thermal Effects on Performance Parameters of Gate Stack DG-MOSFET based Biosensor", In proc: IEEE International Conference of Electron Devices Society Kolkata Chapter (EDKCON), IEEE, February 2023.
 11. Devika Jena, **Sanghamitra Das**, Eleena Mohapatra and Tara Prasanna Dash, "Effect of Nitride Stress on Linearity performance of AlGaIn/GaN HEMT", In proc: International Conference of Electron Devices Society Kolkata Chapter (EDKCON), IEEE, pp. 115-118, February 2023.
 12. Devika Jena, **Sanghamitra Das**, Eleena Mohapatra, Subhashree Choudhury, Taraprasanna Dash, "Simulation of GaN-Based Polarization Junction Super HFET for Power Electronics Application", In proc: International Conference of Electron Devices Society Kolkata Chapter (EDKCON), pp. 302-306, February 2023.
 13. Eleena Mohapatra, Devika Jena, **Sanghamitra Das**, Jhansirani Jena and Taraprasanna Dash, "Work-Function Variability impact on the performance of Vertically Stacked GAA FETs for sub-7nm Technology Node", In proc: International Conference of Electron Devices Society Kolkata Chapter (EDKCON), IEEE, pp. 440-444, February 2023.
 14. P. Khuntia, **Biswajit Baral**, **S. M. Biswal** and **Sudhansu Kumar Pati**, "III-V Heterostucture Transistor with Underlap: A Comparitive Study and Performance Investigation", In proc: International Conference of Electron Devices Society Kolkata Chapter (EDKCON), IEEE, pp. 338-343, February 2023.

15. **Kamalakanta Satpathy**, Ingmar Nopens, and **Jaideep Talukdar**, “Measurement Campaign Using the Acoustic Doppler Velocimetry in Dissolved air Flotation (DAF) Systems”, In proc: Conference on Fluid Mechanics and Fluid Power Springer, pp. 143-148, March 2023
16. **Priyanka Kar**, “Voltage Regulation of Cuk Converter Using Fire Fly Algorithm”, In proc: 4th International Conference on Communication and Computational Technologies (ICCT 2022), pp. 823-832, March, 2023,
17. **Pulak Sahoo**, Dayal Kumar Behera, J. R. Mohanty, and **Ch. Sanjeev Kumar Dash**, “Effort Estimation of Software products by using UML Sequence models with Regression Analysis”, In proc: 2022 OITS International Conference on Information Technology (OCIT), pp. 97-101, March 2023.
18. Shubhashree Sahoo, **Rabindra Kumar Dalei**, Subhendu Kumar Rath, and Uttam Kumar Sahu, “Comparative Performance Analysis of Genetic Algorithm and Differential Evolution for Optimization of Missile Gliding Trajectory”, In proc: 2022 OITS International Conference on Information Technology (OCIT) IEEE, pp. 181-186, March 2023.
19. Shubhashree Sahoo, **Rabindra Kumar Dalei**, Subhendu Kumar Rath, and Uttam Kumar Sahu, “Comparative Performance Analysis of Particle Swarm Optimization and Artificial Bee Colony Algorithm for Optimization of Missile Gliding Trajectory”, In proc: OITS International Conference on Information Technology (OCIT), pp. 187-192, March 2023.
20. **Arnab Pal**, Ajoy Kumar Chakraborty, and Aniruddha Bhattacharya, “Allocation of PV Mounted EV Fast Charging Station in Superimposed System Considering Vehicle Flow”, In proc: IEEE IAS Global Conference on Renewable Energy and Hydrogen Technologies (GlobConHT), IEEE, pp. 1-5, April, 2023.
21. **Ajit Kumar Behera**, Satchidananda Dehuri, and Ashish Ghosh, “Surrogate-Assisted Multi-objective Genetic Fuzzy Associative Classification by Multiple Granularity Measures”, In proc: 2023 International Conference for Advancement in Technology (ICONAT), IEEE, pp. 1-9, April, 2023.
22. Shyamali Das, **Pamela Chaudhury**, and Hrudaya Kumar Tripathy, “Employing Machine Learning Techniques to Categorize users in a Fitness Application”, In proc: International Conference on Advancements in Smart, Secure and Intelligent Computing (ASSIC), IEEE, pp. 1-7, April 2023.
23. Ajit Kumar Rout, **Abhisek Sethy**, and Nandam Sri Mouli, “Machine Learning Model for Awareness of Diet Recommendation”, In proc: International Conference on Inventive Computation Technologies (ICICT), IEEE, pp. 96-101, June 2023.

Book Chapters Published

1. **Samaleswari P. Nayak**, Sarat C. Nayak, S. C. Rai, and Bimal P. Kar, “Wearable Sensors and Machine Intelligence for Smart Healthcare”, Internet of Things Based Smart Healthcare Smart Computing and Intelligence, Springer, pp. 3–22, July 2022.

2. **Nibedita Swain**, "Performance Comparison of P&O and Fuzzy Logic-Based MPPT Control Technique for Stand-Alone Photovoltaic System", *Emerging Electronics and Automation*, Springer, Chapter. 12, pp. 148-160, November 2022.
3. **Sanghamitra Das**, Taraprasanna Dash, **Biswajit Baral**, **Sudhansu Mohan Biswal**, Devika Jena, and Eleena Mohapatra, "Analytical modelling of nanoscale advance devices and their reliability aspects", *Nanoelectronics: Physics, Materials and Devices*, Elsevier, Chapter. 15, pp. 385-408, January, 2023

Participation in FDPs

1. Nivedita Pati participated in the FDP on "Recent Advancement and Research Opportunities in Electrical Engineering", Gargi Memorial Institute of Technology, Kolkata, 11th-15th July 2022
2. Ch. Sanjeev Kumar Dash, Chittaranjan Mohapatra, Dayal Kumar Behera, Debasmita Pradhan, Deepika Rani Sahu, Devpriya Panda, Jasaswi Prasad Mohanty, Kasturi Dhal, Mukti Routray, Pradyumna Kumar Tripathy, Ramakrushna Swain, Ranjit Kumar Behera, Satyananda Champati Rai, Professor, and Rabindra Kumar Dalei, Debahuti Paikaray, Susmita Biswal, and Swarupa Roy participated in the FDP on "A Get Together with a System of Linear Equations for Machine Learning", SIT, Bhubaneswar, 12th - 30th July 2022
3. Janmejaya Senapati and Saswati Jenaparticipated in the FDP on "Face to Face Universal Human Values-II", Siksha O Anusandhan (Deemed to be University), Bhubaneswar, 8th-12th August 2022
4. Janmejaya Senapatiparticipated in the FDP on "Financial Capability Index", BPUT-Nodal Centre for Faculty Development and Training (NCFDT), Srusti Academy of Management (Autonomous), Bhubaneswar, 28th August 2022
5. Sweta Mohanty participated in the FDP on "Inclusive Teaching and Learning" MOOC-Commonwealth of Learning (CoL), 5th – 30th September 2022
6. Chittaranjan Mohapatra, Pamela Chaudhury, Pulak Sahoo, Samaleswari Prasad Nayak, Kumari Anamika, Sweta Mohanty, and Mahendra P. Agastyparticipated in the FDP on "Blogging and Social Media Etiquette", SIT, Bhubaneswar, 9th September 2022
7. Annapurna Mishra participated in the FDP on "Designing Course Outcomes and Outcomes-focused questions", InPods ED-tech, 17th September 2022
8. Anita Mohanty and Nivedita Pati participated in the FDP on "Outcome-based education and NBA accreditation", C.V.Raman Global University, Bhubaneswar, 26th-30th September 2022
9. Anita Mohanty participated in the FDP on "IoT and Machine Learning for Electrical Engineering", SSN College of Engineering, Kalavakkam, 28th-29th October 2022
10. Suvendu Chandan Nayak participated in the FDP on "Cloud Computing and Its Applications: Opportunities and Challenges", Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, 16th - 20th December 2022

11. Samaleswari Prasad Nayak, Sasmita Parida, Saumyanarjan Dash, Surajit Das, Suvendu Chandan Nayak, and Tarini Charana Mishra participated in the ATAL FDP on “IoT for Agriculture and Environment (IOTAE-2022)”, SIT, Bhubaneswar, 26th December 2022 to 6th January 2023
12. Arnab Pal participated in the FDP on “Big Data Analytics”, C. V. Raman Global University, Bhubaneswar, 9th-13th January 2023
13. Bikram Keshari Mishra, Bivasa Ranjan Parida, Ch. Sanjeev Kumar Dash, Debasmita Pradhan, Deepika Rani Sahu, Devapriya Panda, Pamela Chaudhury, Sasmita Parida, Pulak Sahoo, Ranji Kumar Behera, and Suvendu Chandan Nayak participated in the FDP on “Big Data Analytics”, C. V. Raman Global University, Bhubaneswar, 9th – 13th January 2023
14. Kumari Anamika, Siba Sankar Nayak, and Manoranjan Behera participated in the FDP on “Sustainable Chemistry for Environmental Protection”, Siksha O Anusandhan (Deemed to be University), Bhubaneswar, 9th -14th January 2023
15. Annapurna Mishra, Janmejaya Senapati, Rabi N. Mishra, Siba Sankar Nayak, Subrat Kumar Sahu, Sweta Mohanty, Tusar Parida, Ranjit Kumar Behera, Sasmita Parida, Saumyanarjan Dash, Suvendu Chandan Nayak, Arnab Pal, and Nivedita Pati participated in the FDP on “Accreditation Process & NBA”, National Institute of Technical Teachers' Training and Research (NITTR), Kolkata, SIT, Bhubaneswar, 17th – 21st January 2022
16. Devpriya Panda, Deepika Rani Sahu, Pradyumna Kumar Tripathy, Rabindra Kumar Dalei, Ranjit Kumar Behera, Surajit Das, and Sushri Samita Rout participated in the “Faculty Enrichment Program”, MindTree, Bhubaneswar, 1st February 2023
17. Bipin Tripathy, Dharitri Moharatha, Gitisudha Giri, Jaideep Talukdar, Jayashree Das, Kamalakanta Satpathy, Manoranjan Behera, Manas Ranjan Singh, Saroj Kanta Misra, Siba Sankar Nayak, and Subrat Kumar Sahu, participated in the FDP on “OPS-FMET”, SIT, Bhubaneswar, 11th-12th February 2023
18. Arnab Pal participated in the FDP on “Modern Technologies in Electrical Engineering”, B. C. Roy Engineering College, Durgapur, 14th -18th February 2023
19. Abhisek Sethy, Akshaya Kumar Dash, Amarjeet Mohanty, Chittaranjan Mohapatra, Ch. Sanjeev Kumar Dash, Devpriya Panda, Kailash Chandra Mishra, Pradipta Kumar Pattanayak, Rabinarayan Mohanty, Samaleswari Prasad Nayak, Surajit Das, and Tarini Charana Mishra participated in the FDP on “MERN (Mongo DB, Express JS, React JS, Node JS)”, SIT, Bhubaneswar, 17th- 25th March 2023
20. Suvendu Chandan Nayak participated in the FDP on “Big Data and Analytics”, NIT, Jalandhar, 3rd - 7th April 2023
21. Janmejaya Senapati, Manoranjan Behera, and Tusar Parida participated in the FDP on “Entrepreneurship”, SIT, Bhubaneswar, 10th-22nd April 2023
22. Nivedita Pati, Priyanka Kar, and Ipsita Pahi participated in the FDP on “Women Entrepreneurship Development Program”, SIT, Bhubaneswar, 15th May-2nd June 2023

23. Sasmita Paridaparticipated in the FDP on “High Performance Computing”,C-DAC, Bengaluru, 19th- 23rd June 2023

Participation in STTPs

1. Nivedita Pati participated in the STTP on “Renewable Energy Sources and Emerging Technologies”,NITTR, Kolkata, 6th -10th February 2023

Participation in Workshops

1. Utpal Das participated in the Workshop on “Future Intelligent Network Towards 6G: Machine-Learning Approaches”, NIT, Rourkela, 24th-30thJuly 2022
2. Nibedita Swain, N. Pati, L. Mitra, P. Kar, P. S. Behera, I. Pahi, T. Maji, G. R. Biswal, D. R. Nayak, S. Das, R. Mishra, R. N. Mishra, R. P. Panda, Sk. R. Ali, C. S. Dash, S. Das, S. Mohapatra, S. S. Panda, S. P. Rana, S. Mohapatra, and A. Pal, participated in the National Workshop on “Emerging Technologies-2022 (NWET-2022)”, SIT, Bhubaneswar, 24th -26th November 2022
3. Anita Mohanty, Ambarish G Mohapatra, Sudhansu Mohan Biswal, Biranchi Narayan Rath, Nalini Singh, Prakash Rout, Dhanajay Tripathy, Debasish Nayak, Narayan Nayak, Santanu Sarangi participated in the Workshop on “Industrial Automation & Control”, SIT, Bhubaneswar, 1st-3rdDecember 2022
4. Saumyanjan Dash participated in the National Workshop on“NAAC’s Framework for Accreditation & Assessment: An Endeavour towards Excellence for HEIs”, Srusti Academy of Management (Autonomous), Bhubaneswar in collaboration with NAAC, 22nd-23rd December 2022
5. Rabi N. Mishra, Lopamudra Mitra, and Arnab Pal participated in the Two-Day Hands-on Program on “Electric Vehicle Powertrain”, Department of EEE in association with IEEE student chapter, 28th -29th December 2022
6. Annapurna Mishra participated in the National level workshop on "Adoption of Guidelines of UGC on Institutional Development Plan (IDP)",Sinhgad Institute of Technology & Science, Narhe Pune, in association with Savitribai Phule Pune University (SPPU), 30th-31stJanuary 2023
7. Arnab Pal participated in the Workshop on "Opportunities and Challenges in IT Sector Bootcamp -Unlock Your Potential", Department of EEE in Association with Department of Emerging Technologies in Computer Science and Microcare Academy, Kurnool, 6th -11th March 2023
8. Utpal Das participated in the Workshop on“Art of preparing Technical Documents and Presentation using Latex”, Vellore Institute of Technology, Chennai, 19th-21stMay 2023
9. Brijesh Kumar Jha participated in Workshop on“Computer Vision & Intelligent Transportation Systems”, IIT Bhubaneswar, 15th – 16th June 2023

Participation in Seminars/Webinars/Conferences/Other Training Programs/Courses

1. Tusar Parida participated in the Refresher course on “Applicable Mathematics”, Teaching Learning centre, Ramanujan College, University of Delhi, 26th July 2022 -8th August 2022
2. Rabindra Kumar Daleiparticipated in the Webinar on “Learning Data Visualization by Seema Acharya”, the Wiley India Webinar Series, 15th August 2021
3. Kamalakanta Satpathy participated in the seminar on “launching State University Research Excellence (SERB SURE) Scheme DST-SERB”, New Delhi, 3rd August 2022
4. Kamalakanta Satpathy participated in the webinar on “COMSOL Day: Batteries & Fuel Cells”, COMSOL, Multiphysics Pvt. Ltd. Bengaluru, 3rd August 2022
5. Kamalakanta Satpathy participated in the Training on “Knimbus Training”, SIT, Bhubaneswar, 3rd August 2022
6. Nivedita Pati participated in the Webinar on “Adaptive Control Schemes for Grid-Tied Inverters to Improve Power Quality of Micro-Grid Systems”, SRM college, Tiruchy, 17th August 2022
7. Janmejaya Senapati participated in the 2- Week Entrepreneurship Course “Turnip”, Innovations Private Limited, Kolkata, 25th August- 7th September 2022
8. Mahendra Prasad Agastyparticipated in the Training Program on “Incubator Manager Training Program”, Visakhapatnam, Nexus, American Centre, New Delhi, 1st September 2022
9. Aradhana Beuraparticipated in the 13th International Conference on “Computing, Communication and Networking Technologies (ICCCNT 2022)”, IEEE, 3rd– 5th October 2022
10. Anita Mohanty, Ambarish G Mohapatra, Biranchi N Rath, Dhananjay Tripathy, Nalini Singh, Prakash Rout, Sudhansu Biswal, Debasish Nayak, Narayan Nayan, and Santanu Sarangiparticipated in the Webinar on “WCSIP-2022 (Wireless Communication, Image and Signal Processing)”, SIT, Bhubaneswar, 20th -22nd October 2022
11. Monorama Swainparticipated in the 12th International Conference on “Electronics, Communications and Networks (CECNet 2022)”, Xiamen, China, 4th-7th November 2022
12. Pamela Chaudhury participated in the International Conference on “Advancements in Smart, Secure and Intelligent Computing (ASSIC 2022)”, KIIT Deemed to be University, Bhubaneswar, 19th– 20th November, 2022
13. Pradipta kumar Jena and Satish kumar Das participated in the Conference on “Electron Device Kolkata Conference 2022”, IEEE EDS Kolkata Chapter, 26th-27th November 2022
14. Arnab Pal participated in the Seminar on “TEDxSITB”, SIT, Bhubaneswar, 11th December 2022
15. Pradyumna K Tripathy, Rabindra K Dalei, Pulak Sahoo, and Ch. Sanjeev Kumar Dash, participated in “20th OITS International Conference on Information Technology (OCIT 2022)”, KIIT Deemed to be University, Bhubaneswar, 14th – 16th December 2022
16. Anita Mohanty, Ambarish G Mohapatra, Sudhansu Mohan Biswal, Biranchi Narayan Rath, Nalini Singh, Prakash Rout, Dhanajay Tripathy, Debasish Nayak, Narayan Nayak, and Santanu

Sarangi participated in the Webinar on “NES 2022”, SIT Bhubaneswar, 16th -18th December 2022

17. Suvendu Chandan Nayak participated in the International Conference on “Futuristic Computation Techniques: Approaches, implementations and Applications (ICFCT-2022)”, PIET, Panipat, Haryana 16th– 17th December 2022
18. Soumya Ranjan Samal participated in the International conference on “Emerging research in Electronics, Computer Science and Technology, ICERECT-2022”, P.E.S College of engineering, Mandya, 26th-27th December 2022
19. Chittaranjan Behera participated in the National Conference on “Transformation of Technical and Professional Education in line with NEP-2020”, Convention Center, Lokseva Bhawan, Bhubaneswar, 27th December 2022
20. Kumari Anamika participated in the International Conference on “Research Innovations and Challenges”, National Foundation for Entrepreneurship Development (NFED), Coimbatore, Tamil Nadu, 19th - 21st January 2023
21. Arnab Pal participated in the Webinar on “Distributed Generation and Microgrid”, SRM TRP Engineering College, Tiruchirappalli, 24th January 2023
22. Siba Sankar Nayak participated in the Webinar on “Fermentation: Interplay of microbes, immunity & nutrition”, NEHU, Meghalaya, 3rd-4th February 2023
23. Mahendra Prasad Agastya participated in the “55th Annual Conference of Orissa Economics Association”, Kalahandi University, 11th -12th February 2023
24. Kamalakanta Satpathy and Kumari Anamika participated in the training program on “Patents”, BCKIC Foundation in partnership with the Science and Technology Department, Government of Odisha, KIIT University, Bhubaneswar, 21st -22nd March 2023
25. Siba Sankar Nayak participated in the Seminar on “Sustainable Development Goals (NSSDG-2023)”, KBC North Maharashtra University, Jalgaon, 14th March 2023
26. Siba Sankar Nayak participated in the National Conference on "Sc. & Tech. for Sustainable World", ISCA Bhubaneswar Chapter in association with KIIT University, 14th-15th March 2023
27. Subhashree Ojha participated in the International Conference on “Imagining and Translating the Other”, Central University of Odisha, 20th -22nd March 2023
28. Subhashree Ojha participated in the National Seminar on “literary Translation”, Anubad Sahitya Parisad trust and Dept. of Odia Language, Lit. & Culture, Govt. of Odisha, 7th-8th April 2023
29. Pulak Sahoo participated in the 11th International Conference on “Frontiers of Intelligent Computing: Theory and Applications (FICTA 2023)”, Cardiff School of Technologies, Cardiff Metropolitan University, Cardiff, United Kingdom, 11th– 12th April 2023
30. Siba Prasada Tripathy participated in the Seminar of the Precursor Events of G20 – 3rd Education Working Group Meeting”, CSIR-IMMT, Bhubaneswar, 23rd - 26th April 2023

31. Utpal Das participated in the International Conference on “Microwave, Optical and Communication Engineering (ICMOCE 2023)”, IIT, Bhubaneswar, 26th-28th May 2023
32. Debangana Das participated in the “33rd Anniversary World Congress on Biosensors”, Busan, South Korea, 5th-8th June 2023
33. Monorama Swain participated in the IEEE International Conference on “Accoustics, Speech, and Signal Processing”, Rhodes Island, Greece, 4th-10th June 2023
34. Siba Prasada Tripathy participated in the Bootcamp on “Innovation, Design, and Entrepreneurship (IDE)”, IIT, Bhubaneswar, 22nd -26th June 2023

Faculty Members Completed Certified NPTEL Courses

1. Rabindra Kumar Dalei completed NPTEL online Certificate Course on “Introduction to Machine Learning”, IIT Madras, Jul-Sept 2022 (8 weeks)
2. Kasturi Dhal completed NPTEL online Certificate Course on “Programming in Java”, IIT Madras, July-Oct 2022 (12 weeks)
3. Rekha Sahu completed NPTEL online Certificate Course on “Programming, Data Structures and Algorithms using Python”, IIT Madras, Jan-Mar 2023 (8 weeks)
4. Ch. Sanjeev Kumar Dash completed NPTEL online Certificate Course on “Introduction to Internet of Things”, IIT Kharagpur, Jan-Apr 2023 (12 weeks)
5. Janmejaya Senapati completed NPTEL online Certificate Course on NBA Accreditation, Teaching and learning in Engineering, IISc, Bangalore, Jan - April 2023 (12 weeks)

Ph. D. Guidance (CSE/ MCA)

Faculty Name	Research Area(s)	Registered Guide in Universities	No. of Scholars Guiding/ Awarded
Asif Uddin Khan	Edge Computing	KIIT University, SIT, Bhubaneswar	02
Ch. Sanjeev Kumar Dash	Data Mining	BPUT, SIT, Bhubaneswar	02
Dayal Kumar Behera	Machine Learning	KIIT University	01
Jasawasi Prasad Mohanty	NLP/Machine Learning	SIT, Bhubaneswar	01
Pamela Chaudhury	Data Mining	SIT, Bhubaneswar	01
Pradyumna Kumar Tripathy	Parallel Distributed System, Reliability Engineering, Image Processing	BPUT, SIT, Bhubaneswar	04
Rabindra Kumar Dalei	Mobile Computing, Cloud computing	SOA University, SIT, Bhubaneswar	04
Satyananda Champati Rai	Mobile Computing	BPUT, KIIT University, SOA University, Utkal University, SIT, Bhubaneswar	04

Faculty Name	Research Area(s)	Registered Guide in Universities	No. of Scholars Guiding/ Awarded
Soumya Priyadarsini Panda	Natural Language Processing	GIET, Gunupur, SIT, Bhubaneswar	03
Suchismita Rout	Wireless Sensor Network, Software Defined Networking	BPUT, SIT, Bhubaneswar	02
Sushri Samita Rout	Computational Intelligence, Data Mining, and Internet of Things	BPUT	03

Ph. D. Guidance (ECE/EIE/EEE)

Faculty Name	Research Area(s)	Registered Guide in Universities	No. of Scholars Guiding/ Awarded
Aditya Acharya	Image Processing	BPUT, SIT, Bhubaneswar	03
Ambarish Gajendra Mohapatra	Fiber Bragg Grating Sensors	BPUT, GIRT, SIT, Bhubaneswar, University of Technology, Jaypur	04
Biswajit Baral	Semiconductor Device Simulation	SIT, Bhubaneswar	01
Biranchi Rath	Machine Learning	SIT, Bhubaneswar	01
Lopamudra Mitra	Renewable Energy Systems	BPUT	01
Prakash Kumar Rout		BPUT, NIT Rourkela	03
Rabi Narayan Mishra	Renewable Energy Systems	SIT, Bhubaneswar, NIT Rourkela	02
Sudhanshu Biswal	Semiconductor Device Simulation	SIT, Bhubaneswar, NIT, Goa	04
Sudhansu Kumar Pati	Advanced Semiconductor Device Modeling and Simulation	Jadavpur University, BPUT, SIT, Bhubaneswar	04
Sanjit Swain	Semiconductor Device Simulation	KIIT University, SIT, Bhubaneswar	02

Ph. D. Guidance (BSH)

Faculty Name	Research Area(s)	Registered Guide in Universities	No. of Scholars Guiding/ Awarded
Manoranjan Behera	Nanomaterials: Synthesis & Characterization	CUTM, SIT, Bhubaneswar	04
Mahendra Prasad Agasty	Economics	KIIT University, GIET, SIT, Bhubaneswar	04
Prayag Prasad	Delay Differential equations	BPUT	01

Faculty Name	Research Area(s)	Registered Guide in Universities	No. of Scholars Guiding/ Awarded
Mishra			
Tusar Parida	Fluid Mechanics	BPUT	02
Jayashree Das	Physics	SIT, Bhubaneswar	01
Saroj Kanta Misra	Mathematics	SIT, Bhubaneswar	02
Saswati Jena	Psychology	SIT, Bhubaneswar	02
Bidyadhar Padhi	Accounting and Finance	SIT, Bhubaneswar	03
Manas Singh	Industrial Engineering, Soft computing	SIT, Bhubaneswar	02
Janmejaya Senapati	Economics, Professional Ethics & Human Values	SIT, Bhubaneswar	02
Suvashree Subhadarshinee	English	SIT, Bhubaneswar	01
Gitisudha Giri	Nanocomposite	SIT, Bhubaneswar	02

List of Patents Published

Sl. No.	Patentee Names	Title of Invention	Date of Publication	Patent Application Number
1	Surendra Kumar Yadav, Ganesh K. Chavhan, Vaibhav Chaturvedi, Mukesh Saini, K. Sankar, G. Muneeswari, A. Sasi Kumar, and Ramakrushna Swain	Machine Learning Based Approach To Analyze The Various Pollutions And Their Impact On Climate Change	22-07-2022	202211037575
2	Ambarish Gajendra Mohapatra and Pradyumna Kumar Tripathy	Health Management System	05-08-2022	202231042676
3	G. V. Sridhar, G. Ramesh Babu, Ojaswi Bhimineni, Nihar Ranjan Nayak , Uma Patel Thakur, E. Kodhai, A. Sasi Kumar, and J. Ramprabu	Deep Learning Based Classification of Images Captured using Various Imaging Medical Modalities for Kidney Related Ailments along with Treatment Suggestive Technique	12/08/2022	202241043738
4	Jaideep Talukdar , Debiprasad Das, and Bipin Bihari Tripathy	A Solar Photocatalytic Process for Treatment of Wastewater	12-08-2022	202131058796
5	C. Senthilkumar, Sandesh R, Sushil Kumar Bansal, Manoj Chopra, Ramakrushna Swain , Minakshi Dattatraya Bhosale,	Internet of Things (IoT), Image processing and Machine Learning Techniques in Smart Home	09/09/2022	202241049887

Sl. No.	Patentee Names	Title of Invention	Date of Publication	Patent Application Number
	Gurumeet Wadhawa, Dharmbir Singh, Mohd Esa, D. Radhika, Devabalan Pounraj, and S. Balaji	Security		
6	Neelakandan Shanmugam, Ravindran Rajasekaran, Getachew Geno, Neena Sharma, Ritu Sharma, Anupam Sharma, Shweta Sharma, K. M. Priya, Sunil Uttam, Vikas Tripathi, Ramakrushna Swain , and Kedar Sharad Joshi	A smart IoT based natural language processing system with prompt of english sentences to help laymen's interaction with virtual assistants embedded with sensors along with pronunciation	16-09-2022	202241051821
7	Akshaya Kumar Dash	IOT Enabled Mobile Printer	24-09-2022	371381-001
8	G. Prathibha, K. S. Raja Sekhar, Vishwa Priya V, Nihar Ranjan Nayak , Amit Patel, Mohammad Sanaullah Qaseem, K. KetziaJebaseeli, Addagatla Prashanth, Balbhagvan Acharya, and M. C. S. Geetha	A Computer Vision and Artificial Intelligence Based Image Pattern Recognition System and Method Thereof	11-11-2022	202241063765 A
9	S.B. Manooj Kumaar, Soumya Jagadeesan, Vinita Rohilla, S. Jayachitra, K. Abhimanyu Patro, Rajeev Sharma, Soumya Ranjan Samal, Sushant Kumar Pattnaik , P. Dileep, and P. Revathy	An Artificial Intelligence and IOT based System for Regenerative Medicine for the treatment of life-threatening diseases and working method thereof	18-11-2022	202241061114
10	Abhisek Sethy , Ravu Kumar Poluru, Vijendra Pratap Singh, Ambui Kumar Misra, Nandita Manavar, S. Yuvraj, Kothapalli Ramesh Chandra, Sanjeev Kumar, Thilagavathi T, and Anil Kumar Gona	A System with Deep Learning and Internet of Things- Based Investigation and Evaluation of Algorithms for Analyzing Athletic Health Records	20-01-2023	202331003466
11	Dayal Kumar Behera, Subhra Swetanisha, Shreela Dash , and Asif Uddin Khan	I-Vision-based human-robot interaction and navigation system	17-02-2023	202331008501

Sl. No.	Patentee Names	Title of Invention	Date of Publication	Patent Application Number
12	Pamela Chaudhury, Madhuri Rao, Kulamala Vinod Kumar, Subhranginee Das, Suchismita Rout, and Praveena Rao	Post Covid Heart health monitoring using machine learning techniques on smartwatch data	07-04-2023	202331023 008

Awards Received by Faculty Members

- Tushar Parida (Associate Professor, BSH) received the best paper award for the paper “Thermal Radiation Effect on Un-Steady Two-Dimensional Mhd Flow of a Visco-Elastic Fluid Along a Vertical Porous Surface with Heat Source and Chemical Reaction”, International Mathematics conference on “Innovation and Research in Science and Technology for Sustainable Development”, OP Jindal University, Raigarh, July 2022.
- Sweta Mohanty (Assistant Professor, BSH) received the Rama Hari Mishra Memorial Award, by the National Journalist Welfare Board on the occasion of National Press Day, 16th December 2022.
- Suvendu Chandan Nayak (Sr. Assistant Professor, CSE) received the best paper award for the paper “Weighted Clustering Ensemble with Base Clustering Frequency and Diversity”, 1st International Conference on “Futuristic Computation Techniques (ICFCT-2022)”, Panipat Institute of Engineering and Technology, Haryana, 16th -17th December 2022.

Faculty Members as Resource Person/ External Experts

- Pradyumna Kumar Tripathy (Associate Professor, CSE), served as a resource person in the webinar on “Cost and Reliability Issues in Interconnection Networks”, Siksha ‘O’ Anusandhan Deemed to be University, 12th July 2022.
- Saswati Jena (Assistant Professor, BSH) delivered a virtual talk on “Exploring and Understanding my Mental Health”, Mental health awareness program for employees, In2IT Enterprise Business Services Pvt. Ltd, Bangalore, 21st October 2022.
- Suvashree Suvadashinee (Assistant Professor, BSH) served as a key speaker in the International Webinar on “Language and Communication”, DIGISAKSHAM, an initiative of SEMS Welfare Foundation, 11th December 2022.
- Jaideep Talukdar (Professor, BSH), served as a member of UGC Expert Committee team for inspection to grant autonomy, Salem, Tamil Nadu, 15th & 16th December 2022.
- Pulak Sahoo (Associate Professor, CSE) chaired a session in the International Conference on “Innovations in Intelligent Computing and Communications (ICIICC-2022)”, Utkal University, Vani Vihar, Bhubaneswar, 16th - 17th December 2022.
- Jaideep Talukdar (Professor, BSH), served as a member of UGC Expert Committee team for inspection to grant autonomy, Salem, Tamil Nadu, 25th & 26th February 2023.

- Ramaprasad Panda (Professor, EEE) delivered a talk on “Capacity Building Workshop for MSMEs on Energy Efficiency (EE) Financing in Odisha”, 3rd March 2023.
- Ramaprasad Panda (Professor, EEE) delivered a technical talk in the “Retailer Training Program (RTP)” organized under the Standards & Labelling Program of the Bureau of Energy Efficiency (BEE) sponsored by the Ministry of Power, Govt. of India at Angul, 10th March 2023.
- Saswati Jena (Assistant Professor, BSH) spoke on “Self-Acceptance, the step forward for good mental health and wellbeing” in the ‘SAHYOG’ program under ‘MANODARPAN’, 24th March 2023.
- Pulak Sahoo (Associate Professor, CSE) delivered a talk on “Artificial Intelligence” in the Capacity Building Program 2023-24, Regional Training Centre, DAV Public School, Chandrasekharapur, Bhubaneswar, 22 May 2023.
- Pulak Sahoo (Associate Professor, CSE) delivered a talk on “Artificial Intelligence” in the Capacity Building Program 2023-24, Regional Training Centre, DAV Public School, Chandrasekharapur, Bhubaneswar, 23 May 2023.

Workshop/ FDP/ STTP/Seminars Organized

FDP on “System of Linear Equations for Machine Learning”

The Departments of CSE and MCA organized a 3-week Faculty Development Program on “A Get Together with a System of Linear Equations for Machine Learning” from 12th – 30th July 2022. The objective of the FDP was to build strong foundation in machine learning using the principles of linear algebra. The FDP was conducted by our Director, Dr. Saroj Kanta Misra. Twenty-five faculty members participated in the event.



AICTE sponsored FDP on “Integration of Sustainable Energy into Microgrid and its Control”

The Department of Electrical and Electronics Engineering (EEE) at SiliconTech organized a 2-Week ATAL (AICTE Training and Learning) FDP on “Integration of Sustainable Energy into Microgrid and its Control” from 29th August to 9th September 2022 to educate the faculty on the sustainable energy techniques. The FDP comprised of expert talks by Mr. Jayant Sinha, from Energy Utilities, Delhi, Dr. Ullash Kumar Rout from OUTR, Bhubaneswar, Dr. Prakash Kumar



Hota from VSSUT, Burla and Dr. Sudipta Chakraborty from NIT, Silchar. The participants visited the Chandaka Grid Substation, Bhubaneswar and the Grid-connected roof top solar power plant at SiliconTech. More than 40 participants attended the FDP.

FDP on “NEP 2020”

SiliconTech’s IQAC (Internal Quality Assurance Cell) organized an FDP on NEP (National Educational Policy) 2020 entitled “Strategy for Holistic Education” on 5th September 2022 to sensitize the faculty members on the various provisions of NEP. NEP is a blueprint for increasing the quality of education and making India a global knowledge superpower. Prof. Ranjan Kumar Bal, Professor Emeritus, Kalinga Institute of Social Sciences and Former Chairman, P. G. Council, Utkal University served as the resource person in the FDP.



FDP on “Blogging and Social Media Etiquettes”

The Department of Basic Sciences & Humanities organized an FDP on “Blogging and Social Media Etiquettes” on 9th September 2022 to make the participants aware about the effective ways of blogging and the dos and don’ts while using social media. Mr. Sarthak Abhyudaya, Assistant Professor, Journalism and Mass Communication (JMC), Ravenshaw University conducted the session. He also shared ways and methods to monetize one’s blog and increase one’s reach on social media.



WCISP 2022

The Departments of EIE and ECE at SiliconTech jointly organized a 3-day webinar on “Wireless Communication in Image and Signal Processing (WCISP-2022)” from 20th – 22nd October 2022 in the hybrid mode. WCISP 2022 comprised of expert talks on diverse topics by Dr. Priya Ranjan Muduli, IIT (BHU), Varanasi, Dr. Milan Biswal, New Mexico State University, USA, Dr. Jyoti Gangane, ViMEET, Dr. Abhijit Chandra, Jadavpur University, Dr. Nalinikanta Barpanda, Sambalpur University, Dr. Vandana Rohokale, Sinhgad Institute of Technology & Science, Pune and Dr. Aditya Acharya from SiliconTech.

NWET 2022

The Department of EEE organized the 13th National Workshop on Emerging Technologies (NWET 2022) from 24th– 26th November 2022 to provide a forum for the industry and academia to discuss about the emerging technologies and share their best practices. Some of the eminent speakers were Prof. A.K Tripathi, former director general, CPRI, Mr. P.K. Pattnaik, General Manager, OPTCL, Prof. (Dr.) Bidyadhar Subudhi, Dean (R&D), IIT Goa, Mr. K. K. Murty, Former Chief Engineer & HoD (Testing & Commissioning), MPPTCL, Jabalpur, Dr. Sudipta Debnath, Jadavpur University, Dr. Chandrashekhar N. Bhende, IIT, Bhubaneswar, Mr. Jayant Sinha from Capgemini, Mr. S. Gopa Kumar, MD, Cape Electric, Mr. Sethuraman Ganesan, Advisor, Energy Sector, Mr. Ramesh D Suryavanshi, Power Assist FZE, UAE & Senior Member IEEE, CIGRE and Sri Shantanu Kumar, Senior Asset Strategy Engineer from Perth, Australia.



AIPEM 2022

The Department of EEE organized the All India Power Engineers' Meet (AIPEM) on "Emerging Technologies on Electrical Equipment and Products Now and Next" on 27th November 2022 to provide an exposure to the well-researched views of experts in different areas of engineering. Dr. A. K. Tripathy, former Director General of the Central Power Research Institute (CPRI) chaired the first session with Mr. Sonjib Banerjee, Mr. Y.V. Joshi, Mr. K.K. Murty, Dr. Aradhana Ray, Mr. Rajaram Shinde & Mr. R. Prakash as the speakers. Mr. R. N. Nayak, Ex-Chief Managing Director, Odisha Power Transmission Corporation Limited (OPTCL) chaired the second session with Mr. Gopa Kumar, Mr. Sethuraman, Dr. Santanu Swain, Dr. Ramesh Suryavanshi, Dr. Y. P. Chawla & Dr. Satyanarayan as the speakers. Mr. P. K. Pattnaik, General Manager, OPTCL moderated the sessions.



STTP on "Industrial Automation and Control"

The Department of EIE at SiliconTech organized a 3-day Short Term Training Program (STTP) on 'Industrial Automation and Control' from 1st-3rd December 2022 to facilitate



the students and faculty members to gain exposure to the industrial process control environment. Dr. Anita Mohanty, Associate Professor and Mr. Debi Prasad Pradhan, Technical Assistant conducted the training sessions.

NES 2022

The Department of ECE collaborated with Sevyamultimedia to organize a 3-day workshop on Nanotechnology and Embedded Systems (NES-2022) from 16th – 18th December 2022. The workshop comprised of expert talks by Mr. Mrinal Das, Founder e-COE, Dr. Chandra Shekhar, BITS, Pilani, Dr. Vishal Sipani and Mr. Alok Kumar Mishra from Micron Technology, Dr. Siddhartha Dhar and Mr. Atul Bhargava from STMicroelectronics, Mr. Puneet Mittal, Founder & CEO, VLSI Expert Pvt. Ltd., Ms. Indira Iyer and Mr. Vijayan K. from Precision Innovations, USA Chipware Technologies and Kunal Ghosh, Director and Co-Founder, VLSI System Design. 779 participants from reputed industries, renowned institutes of both India and abroad attended the event.



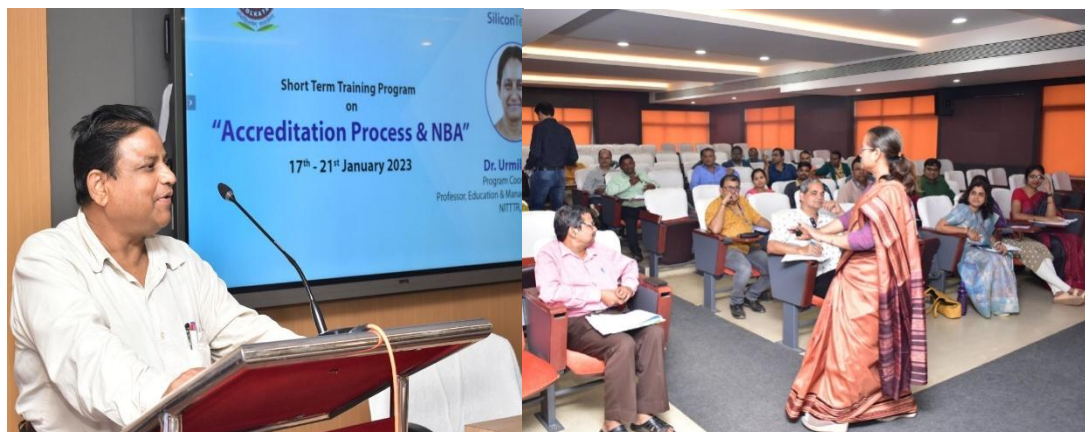
ATAL FDP on “IoT and Agriculture for Environment”

The Department of CSE organized a two-week ATAL (AICTE Training and Learning Academy) FDP on “IoT and Agriculture for Environment” in the hybrid mode from 26th December 2022 – 6th January 2023. Fourteen sessions were conducted by experts including Prof. Suraj Sharma from Guru Ghasidas Vishwavidyalaya Central University, Chhattisgarh, Prof. Ashish Khanna from MAIT (Manufacturers’ Association of Information Technology), New Delhi, Prof. Suvendu Rup from NIT, Raipur, Prof. Abhishek Swaroop from Bhagwan Parshuram Institute of Technology, Delhi, Prof. Siba Kumar Udgata, University of Hyderabad, Telangana and Prof. Siba Prasad Adhikary, Former Vice Chancellor, Fakir Mohan University, Balasore. Mr. Mukesh Singh from Robogenesis conducted three hands-on sessions.



STTP on “Accreditation Process and NBA”

SiliconTech's Internal Quality Assurance Cell (IQAC) collaborated with the National Institute of Technical Teachers Training and Research (NITTTR), Kolkata to organize a 5-day Short Term Training Programme (STTP) on "Accreditation Process and NBA" conducted by Dr. Urmila Kar, Professor, Education and Management, NITTTR from 17th to 21st January 2023. Prof. Debi Prasad Mishra, Director, NITTTR, Kolkata virtually joined as the chief guest of the STTP.



OPS - FMET Meet

The BSH Department collaborated with the Orissa Physical Society (OPS) to organize the 5th National Seminar on "Functional Materials for Emerging Technology (FMET2023)" and the "39th Annual Convention of OPS" from 11th – 12th February 2023. Prof. Karuna Kar Nanda, Director, Institute of Physics (IOP) was the event's chief guest. Prof. S. D. Mahanti from Michigan State University, USA and Prof. Purusottam Jena from Virginia Commonwealth University, USA delivered two memorial lectures. Prof. Sashi Satpathy, University of Missouri, USA, Prof. Manoranjan Kar, IIT Patna, Prof. Shikha Varma, IOP, Bhubaneswar and Prof. Subhankar Bedanta, NISER, Bhubaneswar spoke in the FMET seminar. OPS presented the Young Scientist Awards for the years 2021 and 2022 to Dr. Atal Bihari Swain and Dr. Arvind Khuntia respectively.



Workshop on "General and Electrical Safety Measures"

The Department of EEE in association with the Internal Quality Assurance Cell (IQAC) organized a workshop on "General and Electrical Safety Measures" by Mr. Bikram Keshari Swain, Business Head and SHE (Safety, Health, and Environment) advisor at Vision@WellBeing on 13th May 2023. Mr. Swain is a certified lead auditor for ISO 45001 having experience in leading industrial organizations like Hindustan Coca-Cola Pvt Ltd, United Breweries Ltd, IDLExplosives Ltd, OCL Iron and Steel Ltd, Tata Motors, Birla Tyres and Lafarge India Pvt. Ltd.

Workshop on “Future Trends in Embedded Electronics and Industrial Internet of Things”

The Department of EIE collaborated with PHYTEC Embedded Pvt. Ltd. to organize a one-day workshop on “Future Trends in Embedded Electronics and Industrial Internet of Things” (FTEIIoT-2023) in the hybrid mode on 27th May 2023. Senior members of PHYTEC Embedded Pvt. Ltd. including Mr. Arun Singh, Director, Business Strategies, Mr. B. Vallab Rao, Managing Director and Mr. P. Gopalakrishna, Competency Head and Software Engineer delivered expert talks at the event. Mr. P. Gopalakrishna also took a hands-on session on Practical Demonstration of Linux OS, GPIO, I2C, MQTT, etc.

Workshops/Seminars/Other Events Organized for Students

Workshop on “Android Study Jam”

The Department of CSE collaborated with Google Developer Groups (GDG), Bhubaneswar to organize a workshop on “Android Study Jam” on 3rd September 2022 to educate the students about creating Android apps. The workshop was conducted by our alumnus, Mr. Sriyank Siddhartha and Guru Prasad Mohapatra both working with GDG Bhubaneswar. Fifty-one participants from different colleges across Bhubaneswar enthusiastically participated in the workshop. All the participants enjoyed the event and learned new and exciting things.



Hands-on training on “Advanced Technologies”

The Student Innovation and Promotion Cell (SIPC) at SiliconTech organized a hands-on training program on “Advanced Technologies” on 17th and 24th September 2022. Mr. Mukesh Kr. Singh, Co-founder, Robogenesis Digital Services Pvt. Ltd. conducted a session on ‘Embedded systems and IoT’. The team of Prolific Automation took a session on industrial automation using PLCs and SCADA. The team presented a live working model of Industry 4.0. More than 75 students actively participated in the training program.

EED Workshop

The Department of EEE organized its annual workshop on “Electrical and Electronics Devices (EED)” on 10th December 2022 to enhance the basic technical knowledge of the students in real time applications and facilitate effective information sharing. Shri. Sribatsa Panda, Ex DGM, SAIL, Bokaro Steel Plant was invited as the external judge to evaluate the students based on their understanding and presentation.

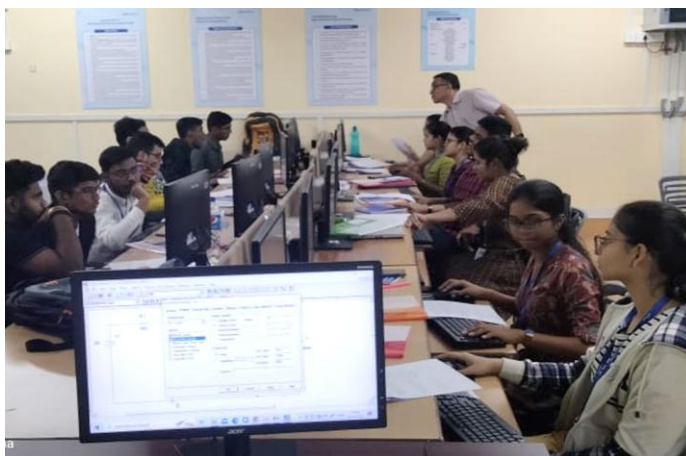
Training program on “EV Powertrain”

The Department of EEE organized a two-day hands-on training program on “Electric Vehicle (EV) Powertrain” from 28th – 29th December 2022 to impart the skills required for EV designing and development. The training program was conducted by Mr. Abinash Das and Mr. Sanjay Baral, EV Trainers with Skyy Rider Institutes for Advanced Skill & Research. The participants worked in groups to identify and understand the mechanisms of BLDC motor, controller, battery, wiring harness, key and accelerator and connected the EV circuit to demonstrate the speed of the motor.



Workshop on “Beginner Boot Camp on PSpice Software”

The Department of EEE collaborated with the IEEE Student Chapter to organize a one-day workshop titled “Beginner Bootcamp on PSpice” on 31st December 2022. The workshop was conducted by Prof. Ramaprasad Panda. Prof. Panda introduced PSpice and Orcad and guided the installation procedure of the PSpice simulation tool. He explained the procedure to specify circuit topology and its analysis. The participants studied the DC circuit analysis through the simulation tool.



Invited talks/Expert talks/Technical talk organized

Invited talk on “Attentive Reading with Speed Learning”

SiliconTech organized a talk on “Attentive Reading with Speed Learning” on 22nd July 2022 to introduce its staff and faculty members to the various techniques involved in speed reading. The session was conducted by Mr. Daya Senan, Lead Trainer and Course Designer at Elite Learning Matrix, Singapore. Mr. Senan is famous for discovering his own techniques of reading known as ‘Attentive Reading’ and ‘Co-ordinated Reading’.

Invited talk on “Modernization of Financial”

Applications using Artificial Intelligence’ The Department of CSE organized an invited talk on ‘Modernization of Financial Applications using Artificial Intelligence’ by Dr. Pranab Mohanty on 12th August 2022. The objective of the talk was to give an insight into how AI is currently used for financial applications by the industry. Dr. Mohanty has been an active researcher in Computer Vision, Natural Language Processing and Personalized recommendation system for the past 20 years. Currently, he is leading multiple advanced research projects in the Reality Lab of Meta Inc (Facebook). 46 faculty members attended the talk.



Invited talk on “EnergyPedia”

SiliconTech’s Department of EEE collaborated with the Petroleum Conservation Research Association (PCRA) and IEEE students’ chapter to conduct a talk on ‘EnergyPedia: Technical Discussion on Energy Conservation’ on 19th September 2022. The objective of this talk was to create awareness about the dire consequences of climate change and the urgent need for energy conservation. The speaker for the program was Mr. Sribatsa Panda, ExDGM, Business Excellence, SAIL, Bokaro Steel Plant, presently working as an External Faculty (Industry) of PCRA. Mr. Panda is also a consultant, trainer and an auditor of various versions of ISO.



Industry talk by TCS

Mr. Partha Sarkar, Academic Relationship Manager from TCS, addressed the students of 2024 graduating batch during a visit on 20th September to SiliconTech. Mr. Sarkar addressed the students on ‘Recent Skill sets required for Industry’. He advised the students to cultivate knowledge on the fast-changing technologies demanded by the Indian industries, develop out-of-the-box innovative ideas and work on real-life projects in association with industry experts.



Industry talk on “Cyber Security Awareness”

The Industry Interface Cell and Department of CSE at SiliconTech jointly organized an industry talk on “CyberSecurity Awareness” by Mr. Niranjana Kumar Parhi, Ex-Indian Air Force Commodore on 27th October 2022, to create awareness about the rising concerns in the field of cybersecurity and the ample scope of this domain. Mr. Parhi has a rich and varied experience as a Chief Technical Officer with the Government of India.



Invited talks on “Digitization in BFSI Space and Blockchain”

The Departments of CSE and Computer Applications jointly organized two invited talks on 6th December 2022. Harshit Jain, Founder and CEO of Sigma Advisory and an alumnus of BITS, Pilani & IIM, Ahmedabad delivered the talk on ‘Digitization in Banking, Financial Services and Insurance (BFSI) Space’. Lingaraj Mahananda, from Credore, spoke on ‘Blockchain’ in which he explained how blockchain technology produces a structure of data with inherent security properties.



Invited Talk on “AI for Everyone”

The Department of EEE collaborated with the IEEE StudentChapter to organize an invited talk on “AI for Everyone” by our alumnus Swaroop Mishra (EEE, 2010-2014) on 21st January 2023. Swaroop has completed his Ph.D. from Arizona State University, USA, and recently joined GoogleBrain as a Research Scientist. He discussed the application of ML in solving real world problems and inspired the students to do higher studies.



Technical talk by IEEE & ISTE Student Chapters

The Institute of Electrical and Electronics Engineers (IEEE) and the Indian Society for Technical Education (ISTE) Student Chapters at SiliconTech jointly organized a technical talk on “Essence of R&D (Research & Development), Intellectual Property & Innovation for Entrepreneurship in HEIs (Higher Education Institutions)” by Dr. Bijay Kumar Sahu on 8th April 2023. Dr. Sahu is the Head of the Department of the Technology Innovation Support Centre (TISC) & IP Facilitation Centre (IPFC), National Research Development Corporation (NRDC), Ministry of Science and Technology (MoST), Government of India.

Talk on “Introvert to IEEE Influencer”

The Institute of Electrical and Electronics Engineers (IEEE) student chapter at SiliconTech organized an expert talk on “Introvert to IEEE Influencer” by Mr. Ramneek Kalra, Editor of IEEE India Council Newsletter, and IEEE Impact Creator & Brand Ambassador on 15th April 2023. Mr. Kalra informed about the IEEE Electronic Library (IEL) and highlighted student educational activities like IEEE eLearning Library, the Education Partners Program, and Continuing Education Units (CEUs). He focused on the technical societies based on different technical areas like Aerospace and Electronic Systems, Antennas & Propagation, Broadcast Technology, Circuits and Systems, etc.



Expert talk by Dr. Aryabartta Sahu from IIT, Guwahati

The Departments of CSE and MCA jointly organized a technical talk on “Soft Reliability Aware Scheduling of Real-time Applications on Cloud with MTTF Constraints” on 31st May 2023 by Dr. Aryabartta Sahu, Associate Professor, CSE, IIT Guwahati. Dr. Sahu is a prolific researcher along with being an educator. His broad areas of research interests include High Performance Computing (HPC), Cloud Systems, Multicore Systems (Architecture, Scheduling and Mapping) and Embedded Systems.



Other Events/Activities

QCFI's 4th Chapter Convention on Quality Concepts

SiliconTech hosted the Quality Circle Forum of India's (QCFI) 4th Chapter Convention on Quality Concepts (CCQC-2022) with the national theme “Integrated Quality Concepts: The Gateway to Global Leadership”, from 15th-16th October 2022. 150 QC teams having more than 750 members participated in this convention. Several teams from core sectors including NALCO (National Aluminum Company Limited), BALCO (Bharat Aluminum Company Limited), Jindal Steel and Power Ltd, NTPC (National Thermal Power Corporation Limited), Utkal Alumina (HINDALCO), Tata Steel, Bhilai Steel Plant, TPCODL (Tata Power Central Odisha Distribution Ltd), OMC (Odisha Mining Corporation) and Paradeep Phosphate Limited, attended the convention. The dignitaries appreciated our PS program. The Industry Interface Cell (II Cell) anchored this event.



Cleanliness Drive in Collaboration with the NGO Bhumi

SiliconTech's Zeal club, Green club and Photography club jointly conducted a cleanliness drive in Khandagiri and Udayagiri caves in collaboration with



the NGO Bhumi on 5th November 2022 to clean the roads and cave areas and raise awareness about keeping our environment clean.

Chilika re Jalapari@Swimming Event

The Veterans Club Odisha (VCO) collaborated with SiliconTech to organize an open water swimming event named 'Chilika Re Jalapari', in Chilika, Asia's largest brackish water lagoon on 13th November 2022. The event was supported by the Government of Odisha and assisted by the Para Swimming Federation of India and the Indian Navy. Jiya Rai, an autistic teenager and Child Prodigy Recipient of Pradhan Mantri Rashtriya Bal Purashkar set a record by swimming 21 kilometres in 3 hours and 52 minutes and was honoured with the title of 'Chilika re Jalapari'.



Energy, Green and Environment audit

The GreenViro Solutions, Mumbai conducted the Energy, Green and Environment audit at SiliconTech on 24th and 25th November 2022. The audit, which is a mandatory requirement for NAAC (National Assessment and Accreditation Council) was conducted by a two-member team headed by Ar. Nahida Abdulla. The team visited various facilities, inspected electrical installations along with various sources of energy and water on campus and appreciated the efforts taken by the institute to provide and maintain various facilities inside the campus. Ar. Nahida Abdulla also gave an expert talk on "Parameters of Green Building" to create awareness about the various environmental concerns and encourage the audience to build a green and clean surrounding.



Invited Talk on 'Waste to Wealth'

SiliconTech collaborated with Bhubaneswar Smart City Corporation Ltd. to organize an invited talk on 'Waste to Wealth' on 31st December 2022 as a part of its youthconnect program. Dr. Jaya Krushna Panigrahi, former Principal, Maharishi College of Natural Law (MCNL), Bhubaneswar and HoD of Zoology and Environmental Science, Sri Jayadev College of Education & Technology (SJCTET) spoke on creating wealth from waste and emphasized the needs for preserving our environment. He stressed on the 5 R Principle (Reduce, Reuse, Recycle, Rethink and Refuse).



Talk on 'Intergenerational Solidarity'

SiliconTech collaborated with Smart City Limited, Bhubaneswar to organize an invited talk on 'Intergenerational Solidarity' by Dr. Pratap Kumar Rath, former Professor, Centre of Advanced Study in Psychology, Utkal University on 6th January 2023. The event was conducted to create awareness about the changing patterns of parenting across the generations, bridging the generation gap and discussing ways to establish solidarity. 90 students and faculty members attended the event.



Industrial Visit to Skyy Rider Institutions

The Department of EEE in association with IEEE Student Chapter organized an industrial visit for the third year EEE students to the Skyy Rider Institutions for Advanced Skill & Research, Bhubaneswar on 11th February 2023. The experts from Skyy Rider Institutions explained about Electrical Vehicle (EV) design and EV technology. The students visited the EV assembly, body manufacturing, and iron/plastic molding sections, following all safety precautions. 49 students and faculty members benefitted from this visit.



Young India Challenge

SiliconTech collaborated with the Human Circle, New Delhi to organize the 12th edition of the Young India Challenge on 25th and 26th March 2023. Mr. Kamal Seth, Global Palm Oil Director, WWF (World



Wide Fund for Nature), Ms. Wioleta Burdzy Seth, a coach and trainer from Poland, Mr. Punyasloka Panda, Founder, YfS and TasQ and Ms. Archana Soreng, member of the UN SG's Youth Advisory on Climate Change delivered expert talks. Manisha Priyadarshini Sahoo (CSE, 2020-2024) and her team 'One Piece' won the challenge and received the seed amount of one lakh rupees. Mayamugdha Mohanty (ECE, 2020-2024) was chosen as one of the speakers for the session 'You are the Story'.

Capacity Building Program in collaboration with DAV Institutions, Odisha zone

SiliconTech collaborated with DAV Institutions, Odisha zone to conduct a six-day Capacity Building Training program on 'Professional Development in Python, AI, and Data Science' at SiliconTech premises from 22nd – 27th May 2023. The training program was completely interactive having hands-on lab sessions to facilitate practical learning. A total of 107 teachers from 54 DAV Schools across the state participated in the program. Dr. Sujata Sahu, Assistant Regional Officer, DAV Institutions, Odisha spoke in the inauguration session and Dr. Keshab Satapathy, Regional Director, DAV Institutions, Odisha zone addressed the valedictory session.

'Odisha for AI' and 'AI for Youth'

The Hon'ble Chief Minister of Odisha, Mr. Naveen Patnaik launched two programs 'Odisha for AI' and 'AI for Youth', organized under the aegis of the Ministry of Electronics & Information Technology (MeitY), Government of Odisha in collaboration with Intel Technologies India at the Lok Seva Bhavan on 29th May 2023. The Hon'ble Chief Minister, Mr. Patnaik, Ms. Nivruti Rai, Country Head, Intel India, and Shri Tusharkanti Behera, Minister of Electronics & Information Technology, Sports & Youth Services addressed the audience. SiliconTech was represented in the event by Dr. Jaideep Talukdar, our Principal, five faculty members and 69 students.

Summer Internship Programme-2023

Summer Internship-2023 for 3rd Year students, 29th May to 6th July 2023

Sl. No.	Name of Course	Conducted By
1	Embedded system and IoT	PHYTEC India Pvt. Ltd.
2	Digital System Verification Using System Verilog	Dr. Debashis Nayak & Scaledge India
3	Specialized Training On Power System Analysis Through Hands-On-Practice	Dr. Ramaprasad Panda & PRDC
4	SEO & DIGITAL MARKETING	Syllogistek Pvt. Ltd.
5	Artificial Intelligence/Data Science/ML	Preplabs
6	Microsoft Certified: Azure Fundamentals cloud (Certification from Microsoft)	Preplabs
7	Data Structure & Algorithm	Preplabs
8	Mean and Mern Stack	Preplabs
9	Python & Django	Preplabs
10	Devops Masters	Sumit Sah (Teleglobal Solutions)

Summer Internship-2023 for 2nd Year Students: 30th June to 3rd August

Sl. No.	Name of Course	Conducted By
1	Digital CMOS VLSI Design and Verification: Verilog HDL and Full-Custom Approach	Dr. DebashisNayak&SantanuSarangi
2	Applied Machine learning for Industry	Dr.Biranchi N. Rath
3	Elementary Course on Core Industry	Sparkspot Consultants
4	Azure Masters	SumitSah
5	Full stack development with Django Framework	Dr. Sameleswari P. Nayak
6	SEO & Digital Marketing	Syllogestek
7	Cyber Security	Preplabs
8	Data Science, ML & Deep Learning Bootcamp using Python	Syllogestek
9	Ultimate Boot Camp in Web Development	Preplabs
10	Mean and Mern Stack	Preplabs
11	Data Structure Algorithm	Preplabs

Campus Placement 2022-23

During the AY 2022-23, 80 companies visited the campus for placement. A total of 760 jobs were offered to B.Tech. students, 45 to MCA students, and 6 to MSc DS students. The major recruiters were Accenture, Capgemini, LTTS, McKinley Rice, Prodapt, WorZ, Tata Power, JSW. The overall placement figures for 2022-23 are:

Overall Placement Figures for 2022-23:

Branch	Total Students	Eligible	Students Placed	Job offers	% Placed on Eligible
CSE	212	211	182	346	86.26
ECE	186	182	153	255	84.07
EEE	121	115	84	123	73.04
EIE	32	31	25	36	80.65
Total	551	539	444	760	83
MCA	62	60	43	45	70
MSc (DS)	12	12	6	6	50

Company- Wise Placement: 2023 Graduated Batch							
Company	Branch						Grand Total
	CSE	ECE	EEE	EIE	MCA	MS(DS)	
Accenture	44	42	13	7	2		108
Accenture ADV	2	1					3
Accolite	4						4
Acorn Globus	1						1
Aditi Consulting	1						1
Anbrain Technology					1		1
Argus News	1						1
Argusoft	5	1			1	1	8

Asiczen		1	1				2
Blaze Automation	2	1	1				4
Blue Star			1				1
British Telecom	2	2	2				6
Cadsys		1					1
Capgemini	62	48	16	7	14	2	149
CAW Studios		1					1
Centoxy					3		3
Cognizant Gen-C					1		1
Continental	2						2
Core Research					1		1
CoreEL		1					1
Cozentus	6	2	1				9
DeepSource	1						1
Digit Insurance	3						3
ESSPL	2	2	2	1	3		10
First American	1	1	1	1			4
FSS					5		5
Genepact					2		2
Go Ranggo& Company	1						1
Haber	4						4
HCL	1	2	2	1			6
Hexaware	6	3		2			11
HP Labs	6						6
HSBC	1						1
Hughes Systique	2						2
IBM	6	6	3				15
In2IT		1					1
Incture	3	2					5
InfyTQ-SE	15	3	1				19
Innova Solutions		2					2
Inspire Software					1		1
Intellipaat	1	1	1				3
JSW		7	8	1			16
Kirloskar		1		2			3
LatentView	1		1				2
Logit One	9	2					11
LTTS	20	28	15	3			66
Marquee Semiconductor		1					1
Mckinley Rice	2	1					3
Mentor Graphics		1					1
MindGraph	2						2
Modak Analytics	2						2
MTE					1		1
Nirmalya Labs					5	1	6

NSL Hub	3						3
Phytec		6	10	6			22
Prodapt- Dream	5	2	1				8
Prodapt- Dream		1					1
Prodapt- Normal	31	11	1				43
Prodapt- Super Dream	1						1
PwC	4	5			1		10
RapidSoft	1		1	1			3
Recruit CRM	1		1				2
Rumango	5	3		1			9
SaddlePoint	1						1
Sanmina	1	1					2
Sap Labs	1						1
SDI- Deloitte Cybersecurity	7	12	8				27
Searching Yard	3	1			1		5
Sevya IT		4					4
Simplfy VMS	3	3					6
SmartSOCS		1					1
Spikewell	12	1	2				15
Spotline	1						1
Squbix	1						1
Squbix Digital	2		2				4
StackIt	1						1
STL				1	1		2
Surya Software	4						4
TATA Power		6	14				20
TCS Digital	7	5					12
TCS Ninja	13	11	6	1	1		32
Tech Mahindra	10	5	1		1		17
upGrad	4	7	8	1			20
Value Labs	1						1
Vodafone		3					3
Workz	2	1					3
Xavier Univercity Researcher						1	1
Xcel Corp		1					1
Total Job Offers							811

Higher Salary 2023

Higher Salary	28 LPA	20 LPA	13.5LPA	10 LPA	9 LPA	8 LPA	7 LPA	5-6 LPA
No. of Students	1	3	3	12	23	28	30	82

Practice School 2023:

Students opted for PS(7th Sem)	Students opted for PS(8th Sem)	Total Students opted for PS	Converted to Placements	PS Stations	Average Stipend	Highest Stipend	Average Package(LPA)
53	184	237	90%	61	15K	50K	6.23 LPA

Achievements by Students

GATE-2023 Achievers

Sl. No.	Branch	Regd. No.	Name	AIR
1	CSE	1901209180	Smrutiranjana Dalai	250
2	CSE	1901209176	Digbijayee Nayak	299
3	CSE	1901209171	VishwaLochan Pathak	744
4	CSE	1901209100	Pratyasa Ray	744
5	CSE	1901209057	Deepshikha Swain	1278
6	CSE	190310219	NEHA KUMARI	1517
7	CSE	190310336	Sadananda Saha	3446
8	CSE	190310069	Pritisha Nandi	3784
9	CSE	190310250	Md Adnan Zakki	9546
10	CSE	190310242	Aparna Das	13541
11	CSE	190310601	Gautam Kumar Gupta	14440
12	ECE	1801209007	Abhinab Das	1487
13	EEE	1801209485	Vivek Vishal	6800
14	CSE	1901209009	Aditya Narayan	8571

CAT-2022-23 Achievers

Sl. No.	Branch	Regd No.	Name	Percentile
1	CSE	1901209181	Sukanta Pal	91.62
2	ECE	1801209003	A V S Chandra Sekhar	74.73
3	CSE	1801209234	Mudrika Khemka	86.35
4	EEE	1801209264	Pavneet Gill	80.2
5	CSE	1801209212	Lipsa Behera	48.63
6	EEE	1801209170	Dibyarupa Jena	88.4
7	CSE	1801209395	Smita Agarwal	77.36
8	ECE	1801209154	Debashree Jena	58.06
9	CSE	1801209277	Prateek Smith Patra	73.07

Other Student Achievements

Team “Develoopers” won third prize in Project Expo 2022

SiliconTech team ‘Develoopers’ comprising of Nirmal Kumar (CST), Anisha Singh (CSE), Suman Tripathy (CSE) and Nilesh (CST) from



the 2024 batch won the third prize in Project Expo' 22 for their mobile android application "VisitorsOpedia". This event was conducted by IEEE in Sasi Institute of Technology and Engineering, Tadepalligudem, Andhra Pradesh on 4th November 2022.

Siliconites win prizes in Start Up Mela 2023

Start Up Mela 2023 was organized by Start UpOdisha on 15th& 16thJanuary 2023. Biswajit Panda(CEN) and Shubham Mohanty (CEN) won the firstprize in Group Discussion. Girish Bhardwaj (CST)andAnkit Kumar (CST) won the third prize inGroup Discussion. Rohit Kumar (CSE) and AnkitKumar (CST) won the third prize in the Start-Upquiz competition. Shekhar Kumar (CST) won thequiz competition conducted for the audience. Allthe winners are from the 2025 graduating batch.



Siliconites win inter-college sports awards

Siliconites won several inter-college competitions in Orion 2023 the annual fest of Sri Sri University. Ourfootball team won the Champions' Trophy and ourBasketball team won the Runners-up prize. Swarnali Roy(ECE, 2022-2026) became the champion in BadmintonSingles (Women) and Ayush Sarangi (EEE, 2020-2024)became the runner-up in Badminton Singles (Men). Ourteam won the goldmedal in 4 x 100 m relay race (Men).Pratyush Prakash Singh (CSE, 2022-2026) won the silvermedal in 100 m race (Men).



SiliconTech's music band 'Samarpan' wins prizes

SiliconTech's music band 'Samarpan' won the'Reverb-War of Bands' organized in Orion 2023, theannual fest of Sri Sri University, Cuttack. Our bandbecame the runner-up in 'SONIX- THE BATTLE OF BANDS' held at the Xamboree fest organized byXIM (Xavier Institute of Management) University.'Samarpan' also won the 'Battle of



Bands' at the TVISHA fest organized by NISER, Bhubaneswar.

Activities of the ED Cell

Webinar on the theme “Opportunities for Early-stage Entrepreneurs

The Entrepreneurship Development Cell and Institution's innovation council (IIC), Silicon Institute of Technology Organized a series of webinars on “Opportunities for Early-Stage Entrepreneurs” from 12th to 14th August 2022 to make the young entrepreneurs aware about the scope of entrepreneurship. Mr. Siddharth Bhatte, Founder, Karkhanagave the first webinar on “Innovation/ Prototype Validation”. Dr. T. Pavan Kumar, Senior Scientist, Department of R&D Planning and Business Development, CSIR-Institute of Minerals & Materials Technology, Bhubaneswar presented two webinars on the topics “Accelerators/ Incubation – Opportunities for Students & Faculties” and “Angel Investment/ VC Funding Opportunity”.

Webinar on “Entrepreneurship Everywhere” on World Entrepreneurs’ Day 2022

The Entrepreneurship Development Cell and Institution's Innovation Council organizing a webinar on “Entrepreneurship Everywhere” on the World Entrepreneurs’ Day on 21st August 2022 in virtual mode. The speaker, Mr. Sanjay Kumar Pattnaik, CEO, Sparkspot spoke vividly on Induced and Ignited Entrepreneurship and touched upon his experience as an entrepreneur. He prescribed 33.3% rule for young entrepreneurs and concluded by saying that entrepreneurship is a roller coaster ride which is full of excitement and learning.

StartupOdishaYatra 2.0

Startup OdishaYatra 2.0 is a flagship of the government of Odisha to scout for grassroots innovators and promote entrepreneurship among the youth. During the Yatra, boot camps are organized at various institutions to encourage idea generation and develop the spirit of entrepreneurship. As a part of this initiative Startup Odisha Yatra 2.0 Van Campaign visited the campus of SiliconTech on 29th August 2022. Students and faculty members of the institute received the Yatra Van. Dr. Mahendra P. Agasty gave the welcome address. The students were asked to present their ideas. Many students pitched their idea. Papun Kumar Jena from ECE branch of SiliconTech shared his idea of creating a Pocket ECG system that will be able to provide the user with data regarding the cardiac system during this visit.

IIC 4.0 Annual Performance

The annual performance result of the Institution's Innovation Councils (IIC4.0) for the academic year 2021-22 was e-released on 18th November 2022 at 3.30 PM. Dr Subhas Sarkar, Hon'ble Minister of State, Ministry of Education, Govt of India joined as the Chief Guest and released the result. Silicon Institute of Technology, Bhubaneswar is among the best 5 institutes in the eastern region scoring 4 out of 5 rating points. For the last 3 years, Silicon Institute of Technology, Bhubaneswar is among the 5 best institutes in the eastern region.

MSME Idea Hackathon 2.0

SiliconTech's MSME (Micro, Small and Medium Enterprises) incubator conducted the MSME Idea Hackathon 2.0 on 3rd December 2022. The MSME incubator at SiliconTech received 16 innovative ideas from students, innovators and MSMEs out of which 5 ideas were forwarded to MSME, New Delhi. The ideas that are eventually selected will get up to Rs 15 lakhs in funding from the institute's MSME incubator to be nurtured and developed further.



Prarambh-An Entrepreneurship Development Program

SiliconTech's Entrepreneurship Development Cell (ED Cell) organized "Prarambh", on 10th December 2022, to create awareness among the students for making a career in entrepreneurship. Amit Kumar Tripathy, Executive Director, Shine group and freelance public speaker, spoke on "Entrepreneurship and Innovation as a Career Opportunity". Ayaskanta Mohanty, Founder & Managing Director, TATWA Technologies Ltd., shared his experiences and challenges as an entrepreneur.



ANVESHAN: Workshop on Problem Solving and Idea Generation

SiliconTech's Entrepreneurship Development Cell (ED Cell) organized "ANVESHAN", a workshop on problem solving and idea generation on 21st January 2023. The objective of "ANVESHAN" was to train the students to identify real-life



problems and ideate to propose solutions to these problems. The workshop comprised of two sessions conducted by Mr. Bhagabati Charan Patnaik, CEO, Atal Incubation Centre, C.V. Raman Global University and Mr. Chittaranjan Patnaik, former Regional Head, Entrepreneurship Development Institute of India (EDII) Ahmedabad. Mr. Bhagabati Charan Patnaik discussed idea generation techniques used for finding the solution to a problem. Mr. Chittaranjan Patnaik delivered a talk on 'Entrepreneurship Skill, Attitude and Behavior Development' and discussed the fifteen competencies required to be a successful entrepreneur. Around sixty students participated in the session.

FDP on Entrepreneurship

ED Cell in association with the Department of Science and Technology (DST), Govt. of India, organized a two-week online Faculty Development Program (FDP) on 'Entrepreneurship' from 10th – 22nd April 2023. The FDP comprised of expert talks by Mr. C.R. Patnaik, the former Regional Head of Entrepreneurship Development Institute of India (EDII), Mr. Jay Dash, Director (Strategy) at the ASHWINI Group of Hospitals, Mr. Amit Tripathy, Executive Director, Shine Group, Mr. S.K. Ratha from the MSME Development Institute, Dr. D.S. Mishra, Deputy General Manager, Small Industries Development Bank of India (SIDBI), Ahmedabad, Dr. Pavan Kumar from IMMT, Bhubaneswar and Dr. T.K. Pany from Ravenshaw University, Cuttack.

Technology based Entrepreneurship Development Programme (TEDP)

ED Cell conducted a four-week "Technology Based Entrepreneurship Development Program (TEDP)" in the virtual mode from 17th April – 12th May 2023. The program was sponsored by the Department of Science & Technology (DST), Government of India. Mr. C. R. Patnaik, Former Regional Head at the Entrepreneurship Development Institute of India (EDII), addressed the audience during the inauguration ceremony. The TEDP primarily focused on the areas of Information and Communication Technology (ICT) designing and industrial automation manufacturing

Entrepreneur's Fest 5.0

ED Cell in collaboration with the Switchtech Incubator Foundation organized the Entrepreneur's Fest (E-Fest) 5.0 from 21st - 23rd April 2023. Dr. Omkar Rai, Executive Chairman of Start-Up Odisha joined as the chief guest. The other invited guests were Dr. Dipan Sahu, Assistant Innovation Director, Ministry of Education's (MoE) Innovation Cell, Govt. of India, Mr. Shreyaan Daga, Co-Founder of OLL (Online Live Learning) & one of the youngest pitchers of Shark Tank India Season 2 and Mr. Bhaskar Majumdar, Founder and Managing Partner, Unicorn India Ventures.



WEDP

ED Cell organized 2 three-week Women Entrepreneurship Development Programs (WEDP) sponsored by the Department of Science & Technology (DST), Govt. of India in the online mode. The first WEDP was organized from 8th – 26th May 2023. Ms. Piyali De, Co-Founder of the NGO 'Duhita' and owner of Kalinga Gases Pvt. Ltd. addressed the participants. The second WEDP was organized from 15th May – 2nd June 2023. Ms. Swosti Mishra, Founder of Mye.Farm, one of the largest Agri-tech

companies in India, addressed the audience during inauguration ceremony. A total of forty sessions were conducted in each program.

OfficialEvents/Activities

Chairman's Address 2022

Dr. Joe Madiath, Chairman, Silicon Institute of Technology, Bhubaneswar addressed the staff and faculty members on 3rd August 2022 and shared his vision about the growth of the institute.

Dr. Ramaprasad Panda, Dean (Administration and Students Affairs) delivered the welcome address. Dr. Saroj Kanta Misra, our director, spoke about the



general progress of the institute in the past one year. Dr. Debabrata Kar, Dean (Academics) and Dr. Jayashree Das, Dean (Research) presented the academic and research report for Academic Year 2021-22 respectively and suggested methods to improve both academics and research.

Independence Day

SiliconTech celebrated 76th Independence Day on 15th August 2022 under the AKAM (Azadi ka Amrit Mahotsav) initiative launched by the Ministry of Culture, Government of India. Our Principal, Dr. Jaideep Talukdar hoisted the national flag and the national anthem was sung. Dr. Talukdar addressed the gathering on this occasion. A 5km mini-marathon and cultural performances by students were also a part of the celebration. The winners of all the competitions organized under AKAM from 23 July to 15 August were awarded.



Foundation Day Lecture

SiliconTech observed its 21st foundation day on 10th September 2022. Dr. Chittaranjan Mishra, Chemical Scientist & Technologist, Former Deputy General Manager (R & D), NALCO was the Chief Guest of the event. Dr. Mishra spoke on "Pandit Nehru and Birth of Scientific Temper in India". Our Principal, Dr. Jaideep Talukdar congratulated all the stakeholders of the institute on the occasion and



highlighted the recent milestones achieved by SiliconTech.

Induction Program for Ph.D. 2nd batch Students 2022

SiliconTech conducted the induction program for its 2nd batch of Ph.D. scholars on 17th October 2022 to introduce them to the institute's rules, regulations and research practices. Prof. Rakesh Chandra Balabantaray, Dean (Academics), IIIT, Bhubaneswar and Dr. Debiprasad Das, Principal Scientist, CSIR-IMMT, Bhubaneswar spoke on the best research practices. Our Dean (Research) Dr. Jayashree Das, shared all the key information regarding the Ph.D. program of the Institute. A total of seven candidates have registered for Ph.D. programs in this session in four different disciplines.



Orientation-cum-Induction of 2022 Admission Batch

The Orientation-cum-Induction program, for the 5th batch under Autonomy (2022-2026) was conducted at the institute premises from 8th–16th November 2022. Among the eminent invited speakers were Dr. Birendranath Banerjee, MD, InDNA Life Sciences, Mr. Abhijit Sen, CEO, Syllogistek, Prof. Bharat Dash from Sri Sri University, Mr. Rashmin Pulekar, Dr. Tapas Ranjan Sarangi and Dr. Ruchi Dahiya from the Art of Living, Sister Savitha from Prajapita Brahma Kumaris and Prof. Kalpana Sahoo from XIM University. Our alumni also interacted with the new joiners and inspired them with their success stories.





Alumni Meet

SiliconTech Alumni Association organized its 14th Alumni Meet at the institute premises on 24th December 2022. The event began with insightful addresses delivered by Dr. Saroj Kanta Misra, our director, and Dr. Jaideep Talukdar, our Principal following the customary lamp lighting ceremony and welcome song. Dr. Sanjit Kumar Swain, Faculty-in-



Charge, Industry Interface Cell (II Cell), shared the progress and achievements of the Institute and students over the past years. The alumni had a wonderful time interacting with the Head of the various Departments and other faculties. The event also featured performances and fun activities arranged by alumni and a virtual campus tour that rejuvenated attendees. More than 280 alumni attended this Alumni Meet.

Republic Day

SiliconTech celebrated the 74th Republic Day on 26th January 2023 to foster the spirit of patriotism and nationalism among its staff and students. The Republic Day celebrations began with the unfurling of the national flag by Dr. Jaideep Talukdar, our principal and singing of the national anthem by the audience. Our students also performed various cultural acts to add vibrance to the celebrations. Later in the day, the members of Zealclub went to the Godibari village located near Chandaka Reserve Forest to donate clothes, food, and



stationery materials among the villagers.

Staff Award Function

The SiliconTech Staff Welfare Committee organized the Annual Staff Award function on 4th March 2023 to felicitate the staff members for their extraordinary achievements and recognize their contributions to the institute. The award function began with cultural performances by the children of our staff. Er. N.G. Dhall, our Trustee, addressed the faculty and staff members commemorating 21 glorious years of SiliconTech. Dr. Saroj Kanta Misra, our Director and Dr. Ramaprasad Panda, Dean, Administration & Student Affairs also addressed the gathering sharing the visions of the institute for the coming years. Mr. Sanjeev Nayak, our Trustee, Dr. Jaideep Talukdar, our Principal, Dr. Debabrata Kar, Dean Academics, Dr. Jayashree Das, Dean Research and all SiliconTech staff attended the function. Sixteen employees received the long service recognition award for 20 years, twenty-four employees received the same for 15 years and eleven employees received the award for 10 years of their valuable service. Ten faculty members were felicitated for completing their Ph.Ds. and one for post-doctoral research. The Staff Welfare Committee presented a video to reminisce all the activities that took place in session 2022-23. Thereafter, the prizes were distributed for staff indoor games, Silicon Premier League and Silicon Champion League. Our faculty and staff members came together for various cultural performances.



Women's Day Celebration

The Social Awareness and Gender Equality for Women (SAGE-W) Cell at SiliconTech in association with the Internal Complaint Committee (ICC) organized the IWD celebrations on 25th March 2023. Ms. Dikhya Tiwari, Senior Associate Editor, My City Links and Mr. Satyabrat SanuRatho, Director, PNV Group & Co-Founder, Bocca Café joined us as the guest speakers to speak on this year's campaign theme, '#Embrace Equity'. Invited guests from Google's Women Techmakers Community including Rhiti Chatterjee Bose, Tanistha Panda, Adyasha Mohanty, Arpita Priyadarshini Sahoo, and Sharmistha Panda joined us on 26th March 2023 to share their success stories and inspire women for achieving greater milestones.



ZYGON 2022

SiliconTech organized Zygon, the annual cultural fest of the Institute on 31st March and 1st April 2023. Dr. Jaideep Talukdar, our Principal, Dr.



Saroj Kanta Misra, our Director, Dr. Debabrata Kar, Dean (Academics), Dr. Ramaprasad Panda, Dean (Administration & Student Affairs), and Dr. Jayashree Das, Dean (Research) came together to light the lamp and address the audience. During the first half, various competitions were organized by the clubs and societies. In the latter half, cultural events were organized in which students showcased their creativity and innovation. A total of 1100 students participated in different events held in the 2-day cultural fest.

Farewell Function-UG 2023 Batch

SiliconTech bade a fond farewell to the B.Tech. graduating batch of 2023 on 27th May 2023 in the North Lawn of the campus. Dr. Jaideep Talukdar, our principal shared his words of wisdom, congratulated the students on their graduation and extended his best wishes for their future endeavors. The students of the 2023 graduating batch shared their experiences about being a Siliconite. The achievers of the 2023 batch were awarded prizes for their extraordinary achievements.



Events/Activities of the Clubs/ Sports, Cultural&Staff Welfare Committee

Obscura 2022

SiliconTech and Ketaki Foundation Trust, Bhubaneswar jointly organized “Obscura- a presentation and discussion on photography” on 19th August 2022 to celebrate World Photography Day. Eight eminent photographers from all over the country viz., Mr. Kamal Lochan Purohit, Mr. Ugresan Meher, Ms. Swati Mohapatra, Mr. Chandra Kant Pattnaik, Mr. Biranchi Sahu, Mr. K Gopinath Acharya, Mr. Subhendu Bhattacharya and Mr. Ashis Dhir shared their work experience with the budding photographers of Silicon Photography Club and other audience members. They also showcased the masterpieces.



Mega Blood Donation Drive

SiliconTech's Red Ribbon Club collaborated with Akhil Bhartiya TerapanthYuvak Parishad to participate in the Mega Blood Donation drive, called as RaktdaanAmrit Mahotsav by organizing a blood donation camp in our campus on 17th September 2022. The students, staff and faculty members of SiliconTech participated enthusiastically in this drive. A total of 115 units of blood were donated in the camp set up in our institute.



All the donors received certificates as a token of encouragement for joining the noble cause.

TEDxSITB@Second Edition

The Industry Interface Cell of SiliconTech organized the second edition of TEDxSITB with the theme "Under the Spotlight" on 11th December 2022. Dr. Nivedita Das, Consultant Psychologist and President of WICCI's (Women's Indian Chamber of Commerce & Industry) Odisha Mental Health Council, Mr. Lalit Das (IPS), Director, Government Printing, Stationery & Publication, Government of Odisha, Mr. Abinas Nayak, Master Chef Season 6 winner, Ms. Juuhi Raai, Rex Karmveer Award Winning Trainer, Master EFT Therapist, Life Story Coach and Author and Ms. Aditi Chauhan, the goalkeeper of the Indian Women's National Football team were the five expert speakers featured in this event.



Women Pakhwada'@Gender Awareness

SiliconTech's SAGE-W (Social Awareness and Gender Equality for Women) Cell and ICC (Internal Complaints Committee) organized a series of events under 'Women Pakhwada' from 25th November – 10th December 2022. An invited talk on 'Awareness and Sensitization Program on Prevention of Sexual Harassment of Women at the Workplace – 2013 Act' was delivered by Ms. Kasturi Mohapatra, Human Rights Activist and Founder Member & Secretary, Open Learning Systems (OLS). A theme-based video was compiled and a street play was organized along with other competitions.



Invited talk on 'Energy Outlook

Perspectives & Challenges' SiliconTech's Institution Innovation Council (IIC) and Green Club jointly organized an invited talk on "Energy Outlook: Perspectives & Challenges" by Shri. Sribatsa Panda, External Faculty (Industry), PCRA (Petroleum Conservation Research Association) and Ex DGM, Business Excellence, SAIL, Bokaro Steel Plant on 14th December 2022. The talk was organized to observe the National Energy Conservation Day and sensitize the audience about the future challenges that will likely arise due to energy concerns and the various methods in which these problems can be tackled.



Quizanna 2023

The Silicon Quiz Club in association with the Silicon Photography Club organized 'Quizanna 2023', an interschool quiz competition on 21st January 2023. The quiz was held in two rounds - prelims and final. Six out of thirty teams qualified for the final round. DAV Public School, Unit-8, Bhubaneswar emerged as the winner. Ravenshaw Higher Secondary School, Cuttack won the 1st runner-up prize and Mother's Public School, Bhubaneswar won the 2nd runner-up prize.



Plastic-Free Campus @Awareness Program

The YfS (Youth for Sustainability) Silicon Chapter collaborated with Silicon Music Club and Theatre Club to organize an awareness program on 'Plastic Free Campus' on 28th January 2023. Our Director, Dr. Saroj Kanta Misra and Dr. Ramaprasad Panda, Professor, EEE delivered two inspiring speeches on the theme. Our students raised various slogans to create awareness. The members of the Theatre Club and YfS chapter presented a drama and the students of Music Club performed a thematic dance.

NIRMAN 2.0

The SiliconTech Robotics Club and Circuit Club jointly organized NIRMAN 2.0 with the motto “Rise with Technology” under the patronage of the Student Innovation and Promotion Cell (SIPC) from 15th – 17th February 2023.

Mr. Subrata Mohanty, Group General Manager (Systems), NALCO was the chief guest of the event. He inaugurated the event and delivered a talk on ‘Role of an Engineer in Current Technology’.

A total of 720 students across the state participated in various events like Line Follower, Robo Race, Hacknation, and Idea Presentation.



SITMUN 2023

SiliconTech organized the 5th edition of the Silicon Institute of Technology Model United Nations (SITMUN2023) from 24th-26th February 2023. The conference had three committees— United Nations General Assembly Disarmament and International Security Committee (UNGA DISEC), United Nations Human Rights Council (UNHRC), World Health Assembly (WHA), and an international press. A total of 160 delegates from different universities and colleges across India attended the conference.



Quizient 2023

Silicon Quiz Club in association with the Silicon Photography Club organized a quiz competition titled ‘Quizient 2023’ on 1st March 2023. The theme for ‘Quizient 2023’ was ‘Sports and Entertainment’. The quiz was held in two rounds - prelims and final. Six out of twenty-five teams qualified for the final round. Swaraj Mohapatra and Biswanath Pattnaik from the B.Tech. 2026 batch were the winners. The runners-up were Ashutosh Tiwari and Prakash Kumar from the B.Tech. 2025 batch.

Dare to be Aware @Awareness Program

The YfS (Youth for Sustainability) Silicon Chapter organized an awareness program entitled ‘Dare to be Aware’ on 3rd March 2023 to observe the ‘National Safety Day’ and ‘World Wildlife Day’. Various competitions were held on this occasion like a wildlife photography contest, a calligraphy contest, and a debating contest titled duo showdown. Mr. Prayag Samal, Entrepreneur and Photographer at National Geographic Traveler India was the expert judge for the wildlife photography and calligraphy contest.

Aurobindo Misra Memorial Quiz

Silicon Quiz Club in association with the Silicon Photography Club organized the Aurabinda Misra Memorial Quiz 2023 on 25th March 2023 to provide theseasoned quizzers of the day a platform to unleash theirquizzing genius and win various prizes. The quiz wasconducted by quiz master ToyadaPattnaik, a

SiliconTechalumnus from the B.Tech. batch of 2021. The winnerswere Krishna Aditya Mohanty from NIT, Rourkela andAbhishek Rath from National Law University of Odisha. Subham Jha & Ronisha Das from Accenture were the 1st runners up and Arpan Chakraborty & Divyanshu Mohanty from NIT, Rourkela were the 2nd runners up.



SWITCH Club conducts Session on “Placement Strategy”

The SiliconTech SWITCH (Silicon Wing of Technical and CodingHub) Club conducted a session on ‘Intensive Preparation Strategy for Placements’ for the B.Tech. and MCA graduating batch of 2024 on 15th April 2023. The objective of this session was to inform the students about the hiring process of various companies and other important aspects of placements like resume writing, projects, and internship programs. Smriti Nayak (CSE, 2023) and Anirudh Panda (EEE, 2023), core members of the SWITCH Club, conducted this session. A total of 46 students attended the event.

World Earth Day 2023

Silicon Green Club (SGC) organized a plantation drive in the campus to celebrate World Earth Day on 22nd April 2023. The theme for Earth Day 2023 is ‘Invest in our Planet’. The students and staff of SiliconTech came together to plant saplings and emphasize the need for increased afforestation for a healthier planet. The event was coordinated by Mr. Subrat Kumar Sahu, Faculty Coordinator of Silicon Green Club.



World DNA Day 2023

SiliconTech, in collaboration with inDNA Life Sciences Pvt Ltd, celebrated World DNA Day by organizing a one-day conclave on Genomic Wellness having the theme 'Illness to Wellness' on 25th April 2023. The conclave comprised of expert talks by Dr. M.V. Ramanujam, Founder and CEO of Propinquity Genomics, Dr. Biren Banerjee, Founder & Director of inDNA Life Sciences Pvt. Ltd., Dr. A. Sreekumar, Chairman and Managing Director of Wellness Solutions, Dr. Vinita Kothari, Founder & CEO, Central lab, Indore and Dr. Sujata Kar, Director of Kar Clinic & Hospital Pvt Ltd (KCHPL), Bhubaneswar. 250 students and 100 delegates including 25 renowned doctors attended the event



Creative Catalyst @workshop on designing

The Social Media Cell organized a workshop on designing titled 'Creative Catalyst' on 29th April 2023. The objective of this workshop was to give insights into the designing principles and enhance the designing skills of the participants. The workshop was conducted in two sessions by Priyanshu Mishra (EEE, 2024) and Aditya Pradhan (CSE, 2024). Both Priyanshu and Aditya are working as graphic designers for the Social Media Cell of SiliconTech. A total of 50 students attended the workshop with their laptops and learned hands-on about the concepts and techniques discussed.



Silicon Quiz Club @Cosmic Quest

Silicon Quiz Club organized a cosmic-themed quiz titled 'Cosmic Quest' for the students on 4th May 2023 to create awareness about key astronomical concepts like the composition of the universe and the concepts of space and time. Team Titan, consisting of Swastik Nayak and Priyanshu Mallick from the CSE 2025 graduating batch, was the winning team. Siddhant Sahoo (ECE, 2023) and Tanmaya Rout (ECE, 2025) from team 'Hail SQC' became the first runner-up. The second runner-up team was 'To Infinity and Beyond' with Swaraj Mohapatra (CST) and Biswanath Pattnaik (CEN) from the 2026 graduating batch.

Sports Events at SunDeck

SiliconTech's Sports Club organized various intra-college sports events in SunDeck, its newly renovated sports complex, from 21st April – 12th May 2023. 'Chakravayuh', a cricket tournament was held from 21st April – 2nd May 2023. 6 teams comprising of 80 students participated in the tournament. Team 'Priyanshu Rising Stars' emerged as the winner. A basketball tournament titled 'BRAWL 'n' BUCKET' was organized from 6th – 10th May 2023. Team 'Layup Legends' became the winner among the 8 participating teams. Furthermore, a basketball tournament titled 'FUTSAL FINESSE' was organized from 9th – 12th May 2023. A total of 8 teams comprising of 64 students participated in this event. Team 'LOS BLANCOS' was the winner.

World Environment Day 2023

Silicon Green Club (SGC) in association with the Institution's Innovation Cell (IIC) organized 'Eco-Olympiad 2023', an environment-based quiz to celebrate World Environment Day on 5th June 2023. The quiz was themed on 'Solutions to Plastic Pollution'. This year's campaign theme for World Environment Day was #BeatPlasticPollution. The objective behind choosing this theme is to create awareness about the hazardous effects of plastic pollution and encourage people to avoid the use of plastic. Gulnaz Ahmad (CSE, 2026) emerged as the winner of this competition. Aditya Raghubanshi Jena (CEN, 2026) became the runner-up.

International Day of Yoga 2023

Silicon Students Council (SSC) organized a yoga-cum meditation session to celebrate the International Day of Yoga (IDY) on 21st June 2023. Mr. Prasant Kumar Mallik, our yoga teacher and Mr. Tarini Charana Mishra, a faculty member, demonstrated yoga postures which were simultaneously performed by the participants. Several asanas including Pawanmuktasana, Katichakrasana, Tadasana, Bhujangasana, Utthanapadasana, Surya Namaskar etc., were performed. It was followed by meditation and Shavasana. The theme of IDY 2023 was 'Yoga for Vasudhaiva Kutumbakam', a Sanskrit phrase that translates to "the world is one family". It promotes the idea that all of humanity, irrespective of differences, should live together as a global family.



Institute Collaborations

MoUs Signed 2022-23:

Sl.No	MOU Date	MOU with Organization	
1	30.07.2022	BALCO (Bharat Aluminium Company Ltd.), Chhattisgarh	A group of people, including students and faculty, are standing in a room, likely during the signing of the MoU. They are wearing blue and green uniforms. There is a table in front of them with some items on it.

Sl.No	MOU Date	MOU with Organization	
2	30.11.2022	In DNA Life Sciences (Pvt) Ltd. (Molecular Medicine)	
3	14.03.2023	BPUT, Odisha (Center of Excellence in 'Artificial Intelligence for Embedded Systems')	
4	10.04.2023	Kristellar Aerospace Pvt. Ltd (Advanced Technology for Aerospace & Cyber Security)	

Institute Achievements/Recognitions

The MoE, Government of India, awards SiliconTech's Institution Innovation Council

The Ministry of Education (MoE) Innovation Cell, Government of India, recognized SiliconTech's Institution Innovation Council (IIC) for its performance in the year 2021-22, as the 'Best Performing Institution Innovation Council' having the highest star rating for the fourth year consecutively on 18th November 2022. SiliconTech is one of the only two colleges in Odisha to receive a 4-star rating and one among the 5 colleges in the eastern zone to get this highest rating.

SiliconTech receives Odisha State Energy Conservation Award 2022

SiliconTech received the Odisha State Energy Conservation Award (OSECA) 2022 for its “meritorious performance” under the category of ‘Educational Institutes’, from the Department of Energy, Government of Odisha, on the occasion of National Energy Conservation Day on 14th December 2022. SiliconTech has initiated various activities through its in-house team for energy efficiency and resource conservation which include enhancing its rooftop PV solar plant capacity, re-use of wastewater, use of energy efficient electrical appliances and gadgets and flattening of load curve through demand side management.



NIRF Rankings 2023 for Innovation

The Ministry of Education (MoE), Government of India placed SiliconTech under the band 151- 300 in the NIRF Rankings 2023 for Innovation, previously known as ‘Atal Ranking of Institutions on Innovation Achievements’ (ARIIA). SiliconTech is one of the 300 institutes in India, from amongst 1413 institutes of central importance, government/private universities, and government/private colleges to receive a rank/band in NIRF 2023 (Innovation) Rankings. It is also one of the four government/ private universities & colleges in Odisha to have received this recognition.