



# **Annual Report**

## **2023-24**

**Silicon University, Odisha**

Silicon Hills, Patia, Bhubaneswar

[www.silicon.ac.in](http://www.silicon.ac.in)

## Message from the Chairman

*It is gratifying to see Silicon out performing itself each successive year by setting higher standards in the field of engineering education. Since 2001, Silicon has added many commendable achievements to its cap in the teaching-learning standards. I would like to congratulate all the faculties, staff members, students, parents, the management and all other stakeholders for silicon's new achievement this year with the elevation of Silicon Institute of technology to the status of Silicon University from 31<sup>st</sup> January 2024. This transformation marks a significant milestone in the journey towards excellence in technical education. As the first Chairman of Silicon University, it is my vision and aspiration to see our institute emerge as one of the premier technical universities in the country.*

*This elevation comes with increased responsibility for all. All the staff members, educators, administrators, and stakeholders play a crucial role in shaping the future of the university. It is imperative that all work together with dedication, commitment, and a shared sense of purpose to achieve the objectives. Together, let us strive to realize the full potential of our institution and make Silicon University a beacon of excellence in technical education and research.*

*I wish Silicon long years of service, as a University 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 decade. The sprawling campus is abuzz with academic and extra-curricular activities of more than 3000 students under the guidance of nearly 164 Teaching staff members and 303 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 over 9000 alumni. With over a decade's existence, the Institute has carved a niche for itself on the academic map of India. Silicon Institute of Technology, Bhubaneswar got upgraded to Silicon University, Odisha with effect from 31<sup>st</sup> January 2024.

## Board of Governors

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

- |     |                                |                   |
|-----|--------------------------------|-------------------|
| 1.  | Mr. Joe Madiath                | (Chairman)        |
| 2.  | Er. Sanjeev Nayak              | (Vice-Chairman)   |
| 3.  | Prof. Jaideep Talukdar         | (Vice-Chancellor) |
| 4.  | Prof. Pradipta Kumar Mohapatra | (Registrar)       |
| 5.  | Mr. Pradyumna Kumar Nayak      | (Member)          |
| 6.  | Ms. Sanjali Murmu              | (Member)          |
| 7.  | Prof. Srikanth Sundarajan      | (Member)          |
| 8.  | Er. Devesh Sinha               | (Member)          |
| 9.  | Er. Nitai Gaur Dhall           | (Member)          |
| 10. | Mr. Jitendra Prasad Singh      | (Member)          |
| 11. | Prof. Debabrata Kar            | (Member)          |
| 12. | Prof. Saroj Kanta Misra        | (Member)          |
| 13. | Dr. Manoj Fogla                | (Member)          |
| 14. | Dr. Tanmay Panda               | (Member)          |

## 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 22 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 institute has a campus area of 18.113 acres and a built-up area of around 356059 sq. ft., which is well maintained and provides an overall conducive academic environment. The Institute has come up with an additional built-up area of 1,15,500 sq. ft. which would augment the existing facilities at the Institute such as library, examination halls, computer laboratories, classrooms, and administrative offices.
- The Institute has an Auditorium with a capacity of 350 seats and features a state-of-the-art audio-visual system for conferences, lectures, movie shows and theater performances.

- The Institute has a library housed in a large hall of 17000 sq. ft. and is the centre of intellectual activities. It has well over 65,022 + 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 Ishan Technologies 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 13 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 was 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. Silicon Institute of Technology, Bhubaneswar got upgraded to Silicon University, Odisha with effect from 31<sup>st</sup> January 2024.

## 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	180
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. Sc. (VLSI)	30
4	M. Sc. (Molecular Medicine)	30
5	M.Tech. in Electronics & Communication Engineering	9
6	M.Tech. in Computer Science & Engineering	9
7	M.Tech. in Electrical & Electronics Engineering	9

## Ph.D. Programs

Silicon offered Ph. D. programs in the disciplines: Computer Science & Engineering, Electrical Engineering, Electrical & Electronics Engineering, Electronics & Communication Engineering, Electronics & Instrumentation Engineering, Mechanical Engineering, Chemistry, Economics, English, Mathematics, Management, Physics, and Psychology.

## Admissions Process

The admissions process for the UG/PG courses are 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.

The admissions for the Ph.D. courses are through the Silicon University Admission Test (SUAT) which comprises a written examination and/or interview.

### Admission Statistics (UG/PG): 2023-24

Program	Branch	Sanctioned Intake	Admitted student		Total	Regular		Lateral	
			Regular	Lateral		Male	Female	Male	Female
B.Tech.	CSE	180	229	23	252	173	56	18	5
	CEN	60	75	6	81	51	24	4	2
	CST	60	75	6	81	50	25	4	2
	ECE	180	208	5	213	124	84	4	1
	EEE	180	163	12	175	116	47	10	2
	EIE	60	42	0	42	25	17	0	0
M.Tech.	CSE	9	3	0	3	2	1	0	0
	ECE	9	0	0	0	0	0	0	0
	EEE	9	0	0	0	0	0	0	0
MCA	MCA	60	74	0	74	47	27	0	0
M.Sc.	DS	30	20	0	20	14	6	0	0
	VLSI	30	3	0	3	3	0	0	0
	MM	30	5	0	5	2	3	0	0
Total		897	897	52	949	607	290	40	12

### Ph.D. Admissions: 2023-24

- A total of 55 Ph.D. scholars are currently continuing their research under the supervision of our faculty members in a wide range of areas in Engineering, Science, Humanities, Social Sciences, and allied interdisciplinary areas.
- During the AY 2023-24, 9 research scholars (4: July Batch; 5: January Batch) admitted to Silicon University under different disciplines for the Ph.D program.

### 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 2023-24 and awards were made under the categories:

Sl.No	Name of Scholarship	Total Students
1	E-Medhabruti Scholarship-Fresh	197
2	Post Matric Scholarship-Fresh & regular	189
3	E-Kalyan Jharkhand-Fresh & Regular	0
4	Credit Card Loan-Bihar	3
5	National Scholarship- Fresh & regular	27
<b>Total</b>		<b>416</b>

### Student Support & Progression

- The Institute provides a ragging free atmosphere to the students.
- The Institute has provision for lateral entry admission in the 3<sup>rd</sup> 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 academically meritorious and top-performing students to be a part of the Silicon Achiever's Club. The club members are provided with various benefits in the form of: study-aid materials, issuing extra books from the library, partial reimbursement of expenses towards IEEE student membership, expenses towards hardware, tools, registration fees, travelling expenses, etc., to participate in technical events.
- 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 2023-24, the library resources were augmented by acquiring 168 new titles and 195 volumes making a total resource repository of 10138 titles and 39882 volumes. There are 41969 titles of E-books under Proquest e-book central subscription. The library also subscribes to E-Resources: 238 journals and 35911 Conference proceedings from IEEE (ASPP + POP), 294 journals from Science Direct (Elsevier) and 175 Journals (Engineering), 99 Journals (Computer science), 175 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 2023-24 are as follows:

### Odd Semester

1<sup>st</sup> Semester - 75 Days

3<sup>rd</sup> Semester - 73 Days

5<sup>th</sup> Semester - 72 Days

7<sup>th</sup> Semester - 69 Days

### Even Semester

2<sup>nd</sup> Semester – 75 Days

4<sup>th</sup> Semester - 71 Days

6<sup>th</sup> Semester - 73 Days

8<sup>th</sup> Semester - 72 Days

## Academic Performance

Program	Year	Branch	Appeared	Passed	Failed	%Success
B. Tech.	2020-2024	CEN	55	54	1	98.18
		CSE	209	206	3	98.56
		CST	66	65	1	98.48
		EEE	47	46	1	97.87
		ECE	118	111	7	94.07
		EIE	10	10	0	100.00
	2019-2023	CSE	212	206	6	97.17
		EEE	121	105	16	86.78
		ECE	185	175	10	94.59

	2018-2022	EIE	32	31	1	96.88
		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
MCA	2022-2024	MCA	73	73	0	100.00
	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
M.Sc. (DS)	2022-2024	DS	27	27	0	100.00
	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
	2022-2024	CSE	1	0	1	0.00

### 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 164 faculty members of the Institute, 78 hold Ph.D. Degrees. Furthermore, 8 have submitted their thesis, 37 are continuing with their Ph.D. research and remaining are in the process of registration under various universities.

Professors	16
Associate Professors	30
Assistant Professors	118
Total	164

- 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 2023-24, the following faculty members were continuing their research under different universities while on study Leave:

Name	Program of Study (Ph.D. /Post Doc)	Institution
Monorama Swain	Post Doc.	UCPH, Denmark
Jagadish Patra	Ph.D.	Siksha 'O' Anusandhan University
Sadhna Malik	Ph.D.	IIT, Kharagpur
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	Ranjit Kumar Behera (Sr. Assistant Professor, CSE)	Modeling of Internet of Things (IoT) and Architecting Services for Realizing Smart Cities	01.07.2023	BPUT, Rourkela
2	Kailash Chandra Mishra (Assistant Professor, CSE)	Detection and Defensive Approaches Towards Piracy Issues in Cloud Based Applications	13.10.2023	NIT, Jamshedpur
3	Debangana Das (Assistant Professor, ECE)	Development of selective and sensitive electrodes of an electronic tongue for identification of important chemical constituents in Green tea	22.11.2023	Jadavpur University, Kolkata
4	Nayan Ranjan Paul (Assistant Professor, CSE)	Automatic Labelling and Classification of Disaster-Related Social Media Text	12.01.2024	IIIT, Bhubaneswar

Sl. No.	Name/Designation /Dept.	Thesis Title	Date of Award	Awarding University/Institution
5	Priya Kumari Singh (Assistant Professor, BSH)	Numerical Methods Based on Polynomials and Orthogonal Basis Functions for Solving Stochastic Differential and Integral Equations Arising in Mathematical Modelling	09.02.2024	NIT, Rourkela

## Publications:

### Journal Publications

1. **Abhisek Sethy**, Ajit Kumar Rout, Archana Uriti, and Surya Prakash Yalla, "A Comprehensive Machine Learning Framework for Automated Book Genre Classifier", *Revue d'Intelligence Artificielle*, pp. 745-751, July, 2023
2. **Bipin Bihari Tripathy**, Haripriya Rath, Naresh Chandra Mishra, **Jayashree Das**, and Dilip Kumar Mishra, "Surface modifications of TiO<sub>2</sub> nanostructured materials induced by 120 MeV Ag ions", *Surface and Interface Analysis*, July, 2023
3. **Janmejaya Senapati**, Bhabani Shankar Dash, and Ranjan Kumar Dash, "MSMEs under the Make in India Movement", *International Journal for Research in Engineering Application & Management*, Vol. 9, No. 4, pp. 33-38, July, 2023
4. Stitapragyan Lenka, Sateesh K. Pradhan, **Samaleswari Prasad Nayak**, and Sarat Chandra Nayak, "Exploiting Predictability of Random Vector Functional Link Networks in Forecasting Quality of Service (QoS) Parameters of IoT-Based Web Services Data", *International Journal of Sensors Wireless Communications and Control*, Vol. 13, No. 2, pp. 57-70, July, 2023
5. Debashreet Das and **Pradyumna Kumar Tripathy**, "Optimal Reliability in Cloud Computing Networks Under Dynamic Node Failure", *Journal of Harbin Engineering University*, Vol. 44, No. 7, pp. 2427-2434, July, 2023
6. Srikanta Acharya, **Debangana Das**, Shreya Nag, Soumen Mukherjee, Ajanto K. Hazarika, Bipan Tudu, Rajib Bandyopadhyay, and Runu Banerjee Roy, "Optimization techniques for a voltammetric signal to predict green tea quality parameters using MIP electrode", *IEEE Sensors Journal*, IEEE, July, 2023
7. Amiya Dash, Shuvabrata Bandopadhyay, **Soumya Ranjan Samal**, and Vladimir Poulkov, "AI-Enabled IoT Framework for Leakage Detection and Its Consequence Prediction during External Transportation of LPG", *Sensors*, Vol. 23, No. 14, July, 2023
8. **C. Jayant praharaj**, "Scalable Biexcitons in h-BN/Monolayer MoSe<sub>2</sub> Quantum Dots for Quantum Entanglement and Computation", *International Journal of Electrical, Electronics and Data Communication (IJEEDC)*, Vol. 11, No. 4, pp. 25-27, July, 2023
9. Eleena Mohapatra, Jhansirani Jena, Devika Jena, **Sanghamitra Das**, and Tarapasanna Dash, "Work function variability and inverter design possibility in advanced gate all around FETs", *Nanomaterials and Energy*, Vol. 12, No. 2, pp. 81-89, July, 2023

10. Subhadarshinee Mohapatra and **Suvashree Suvarshinee**, "English Language Acquisition and Learning", International Journal of Research Culture Society , Vol. 7, No. 28, pp. 156-160, July, 2023
11. **Suvashree Suvarshinee**, "Tracing Prostitution Roots Through Ancient Texts and Practices around the World", International Journal of Research Culture Society, Vol. 7, No. 28, pp. 143-148, August, 2023
12. Shashwati Khatai and **Suvashree Suvarshinee**, "Structural Analysis of Men in Jane Austen's Persuasion: A Study through Socio-Economic Changes", International Journal of Research Culture Society, Vol. 7, No. 28, pp. 156-160, August, 2023
13. Shreya Nag, **Debangana Das**, Hemanta Naskar, Bipan Tudu, Rajib Bandyopadhyay, and Runu Banerjee Roy, "A Novel Molecular Imprinted Polymethacrylic Acid Decorated Graphite Electrochemical Sensor for Analyzing Metanil Yellow Adulteration in Food", IEEE Sensors Journal, IEEE, August, 2023
14. Devika Jena, **Sanghamitra Das**, **Biswajit Baral**, Eleena Mohapatra, and Taraprasanna Dash, "Linearity Improvement in Graded Channel AlGaIn/GaN HEMTs for High-Speed Applications", Physica Scripta, August, 2023
15. **Ambarish G. Mohapatra**, **Anita Mohanty**, Nihar Ranjan Pradhan, Sachi Nandan Mohanty, Deepak Gupta, Meshal Alharbi, Ahmed Alkhayyat, and Ashish Khanna, "An Industry 4.0 implementation of a condition monitoring system and IoT-enabled predictive maintenance scheme for diesel generators", Alexandria Engineering Journal, Vol. 76, No. 1, pp. 525-541, August, 2023
16. Dipan Bandyopadhyay, Srikanta, Shreya Nag, **Debangana Das**, and Runu Banerjee Roy, "A Molecular-Imprinted Bipolymer Infused Capacitive Sensor for Inositol Detection in Fruits", IEEE Transactions on Instrumentation and Measurement, IEEE, Vol. 72, Article No. 9512409, August, 2023
17. Devika Jena, **Sanghamitra Das**, and Tara prasanna Dash, "Design and Simulation of Enhancement-Mode Vertical Superjunction GaN HEMT with Improved Ron and Cut-Off Frequency", IETE Journal of Research, October, 2023
18. Venkateswara Rao Naramala , B. Anjanee Kumar, Vuda Sreenivasa Rao, **Annapurna Mishra**, Shaikh Abdul Hannan, Ts. Yousef A. Baker El-Ebiary, and R. Manikandan, "Enhancing Diabetic Retinopathy Detection Through Machine Learning with Restricted Boltzmann Machines", International Journal of Advanced Computer Science and Applications, Vol. 14, No. 9, pp. 573-585, October, 2023
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### Book Chapters Published

1. Shreya Nag, **Debangana Das**, and Runu Banerjee Roy, "Assay of Molecular Imprinted Polymers as Food Additive Detectors", Impactful Technologies Transforming the Food Industry, IGI Global, Chapter. 16, pp. 255-267, August, 2023
2. **Subhakanta Dash** and S. P. Mohanty, "A Transportation Model with Rough Cost, Demand, and Supply", Modeling and Applications in Operations Research, Taylor & Francis, Chapter. 11, November, 2023
3. **Abhisek Sethy**, NazeerShaik, Yadavalli, Pavan Kumar and S. P Anandaraj, "AI: issues, concerns, and ethical considerations", Toward Artificial General Intelligence: Deep Learning, Neural Networks, Generative AI , De Gruyter, Chapter. 9, pp. 189-212, 2024
4. **Abhisek Sethy**, NazeerShaik, V. Saravananand S. Karthika, "The future with AI and AI in action", Toward Artificial General Intelligence: Deep Learning, Neural Networks, Generative AI, De Gruyter, Chapter. 10, pp. 213-232, 2024
5. **C. Jayant Praharaj**, "Quantum Photonic Properties of Nitride Semiconductor Devices", Group III Nitride Semiconductor Optoelectronics, John Wiley Publishers, Chapter. 9, January, 2024
6. **C. Jayant Praharaj**, "Polaritons in Nitride Semiconductor Heterostructures", Group III Nitride Semiconductor Optoelectronics, John Wiley Publishers, Chapter. 10, January, 2024
7. **Anita Mohanty**, **Ambarish G. Mohapatra**, and S. K. Mohanty, "Bridging gaps in patient care with AI-Driven IoMT: Intelligent Connectivity and Patient-Centric Results", Lightweight Digital Trust Architectures in the Internet of Medical Things (IoMT), IGI Global, Chapter. 12, pp. 213-228, May, 2024



8. **Lopamudra Das**, Aruna Tripathy, Sarita Nanda, and J. K. Das, “The Computational Techniques in Mutational Disease Prediction: A Comprehensive and Comparative Review”, Computational Intelligence for Oncology and Neurological Disorders, CRC Press, Chapter. 6, pp. 79-94, May, 2024

### Books Published

1. J. Satheesh Kumar, **Sushant Kumar Pattnaik**, NookalaVenu, Arun Kumar Arigela, “Fundamentals of Internet of Things”, Scientific International Publishing House, ISBN: 978-93-5757-801-1, September, 2023
2. **Siba Sankar Nayak**, “Nobel Laureates in Science & Medicine (1901-2023)”, White Falcon, New Delhi, ISBN: 9798892221559, January, 2024

### Patents Granted/Published

Sl. No.	Patentee Names	Title of Invention	Date of Publication/Grant	Application Number/Design No.
1	Pramoda Patro, <b>Akshaya Kumar Dash</b> , <b>Pulak Sahoo</b> , R. Harikishore, and G. Suresh Kumar	Artificial Intelligence Based Breast Cancer Detection Device	06/05/2023	385684-001
2	<b>Jaideep Talukdar</b> , Debi Prasad Datta & <b>Bipin Bihari Tripathy</b>	A Solar Photocatalytic Process for Treatment of Wastewater	02/08/2023	442435
3	Alok Kumar Pani, <b>Suwendu Chandan Nayak</b> , Sasmita Parida, Pankaj Kumar, <b>Saumyaranjan Dash</b> , Neeraj kumar, Manohar Manur, Ashok Kumar Bhoi, Chandan Kumar, and Vijay Kumar	Smart Processing Device for Heart Disease Classification	13/11/2023	6323430
4	S. Nayak, N. Kumar, B. B. Choudhury, <b>Anita Mohanty</b> , <b>Ambarish G. Mohapatra</b> , and A. Lenka	Robot for air conditioner duct cleaning	05/12/2023	6328235
5	D. Nagaraju, <b>Abhisek Sethy</b> , V. Porkodi, J. Rajyalakshmi, and K. Maithili	AI Based Device for Infusion of Cancer Vaccine	30/01/2024	401411-001
6	B. Jena, D. R. <b>Nayak</b> , <b>Narayan Nayak</b> , N. Ghuge, <b>Ambarish G. Mohapatra</b> , S. K. Mohanty, and <b>Anita Mohanty</b>	IoT Based Soil Moisture Level Indicator for Agriculture Production Industries	26/03/2024	6337347
7	Sankhadeep Debdas, Kerenalli sudarshana, Bira Majhi, Lopamudra Mitra, <b>Judhisthir Dash</b> , Apratim Dutta, Subhra debdas	Advancing Environmental Sustainability: Integrating Machine Learning into Climate Modeling and Carbon Footprint Calculation Software Solutions.	14/06/2024	202421000000

## Participation in FDPs

1. Shreela Dash, and Siba PrasadaTripathy participated in the FDP on “Development of Laboratory Instruction and Manual (PS 44C)”, NITTTR Kolkata’s Extension Centre, Bhubaneswar, 17<sup>th</sup> -21<sup>st</sup> July 2023
2. Debahuti Paikaray, Sripati Kumar Mishra, Susmita Biswal,Tusar Parida, and Swarupa Roy participated in the FDP on “Mathematical concepts and building blocks for simulation”, SIT, Bhubaneswar, 7<sup>th</sup> -23<sup>rd</sup> August 2023
3. Kumari Anamika participated in the FDP on “Molecular Approaches in Plant Sciences for Bioentrepreneurship”, HRDC, Berhampur University, 21<sup>st</sup> - 26<sup>th</sup> August 2023
4. Judhisthir Dash participated in the FDP on “IEEE Authorship and Open access symposium: Tips and Best Practices to Get Published from IEEE Editors”, IEEE, 31<sup>st</sup> August 2023
5. Debahuti Paikaray and Susmita Biswal participated in the FDP on “Advances in Graph Theory”, Vellore Institute of Technology, Chennai, 11<sup>th</sup> -15<sup>th</sup> September 2023
6. Ch. Sanjeev Kumar Dash, Ranjit Kumar Behera, and Sushri Samita Rout participated in the ATAL FDP on “Artificial Intelligence in E-Automobile Technology and its Integration with Sustainable Energy”, SIT, Bhubaneswar, 6<sup>th</sup>-11<sup>th</sup> November 2023
7. Nivedita Pati, Nibedita Swain, Lopamudra Mitra, Sanghamitra Das, and Debangana Das participated in the FDP on “Artificial Intelligence in E-Automobile Technology and its Integration with Sustainable Energy”, SIT, Bhubaneswar, 6<sup>th</sup>-11<sup>th</sup> November 2023
8. Siba Sankar Nayak and Subrat Kumar Sahu participated in the FDP on “Air, Water Pollution & Health”, NITTTR, Kolkata extension centre, Bhubaneswar, 13<sup>th</sup> -17<sup>th</sup> November 2023
9. Kumari Anamika participated in the FDP on “Research Writing & Publication Process”, NFED, Coimbatore, Tamil Nadu, 25<sup>th</sup> -26<sup>th</sup> November, 2023
10. Amulya kumar Roul, Annapurna Mishra, Amiya bhusana Sahoo, Aradhana Raju, Sushant kumar Pattnaik, Pradipta kumar Jena, Srikrishna Bardhan, Debangana Das, Srikrishna Bardhan, Sudhansu kumar Pati, Aditya Acharya, and Biswajit Baral participated in the FDP on “Nanotechnology and Embedded Systems”, SIT, Bhubaneswar, 18<sup>th</sup> -23<sup>rd</sup> December 2023
11. Pradyumna Kumar Tripathy, participated in the FDP on “Design and implementation of Distributed Database along with impact on IOT”, Gandhi Institute for Education & Technology, Bhubaneswar, 18<sup>th</sup> -23<sup>rd</sup> December 2023
12. Rabinarayan Mohanty participated in the FDP on “High Performance Computing (HPC) Master Training Program”, AICTE and C-DAC ,Bengaluru, 12<sup>th</sup>-23<sup>rd</sup> Feb 2024
13. Pradyumna Kumar Tripathy participated in the FDP on “High Performance Computing (HPC) Master Training Program”, AICTE and C-DAC , Bengaluru, 3<sup>rd</sup> -14<sup>th</sup> June 2024

## Participation in STTPs

1. Nivedita Pati participated in the STTTP on “Sustainable Technologies and Energy Management of Hybrid Microgrid”,NIT, Rourkela, 12<sup>th</sup> -16<sup>th</sup> July 2023

2. Nivedita Pati, Subrat Kumar Sahu, and Aradhana Raju participated in the STTP on “Development of Laboratory Instruction and Manual”, NITTTR, Rourkela, 17<sup>th</sup> -21<sup>th</sup> July 2023
3. Sweta Mohanty participated in the “UGC Sponsored Short Term Course on Research Ethics”, Utkal University, Vani Vihar, 19<sup>th</sup>-21<sup>st</sup> July 2023
4. Ranjit Kumar Behera participated in the STTP on “Intelligent Transportation Systems for Smart Cities”, NIT, Rourkela, 8<sup>th</sup>-12<sup>th</sup> September 2023
5. Abhishek Sethy, Ajit Kumar Behera, Akshaya Kumar Dash, Arabinda Dash, Asit Kumar Das, Bhagwat Prasad Chaudhury, Bikram Keshari Mishra, Bivasa Ranjan Parida, Ch. Sanjeev Kumar Dash, Deepika Rani Sahu, JayashreePiri, Kasturi Dhal, Milan Samantaray, Mukti Routray, Nayan Ranjan Paul, Nihar Ranjan Nayak, Pamela Chaudhury, Pradyumna Kumar Tripathy, PragyanParamita Das, Pulak Sahoo, Rabinarayan Mohanty, Ramakrushna Swain, RekhaSahu, Samaleswari Prasad Nayak, Sanjay Kumar Giri, Saumyaranjan Dash, Shreela Dash, Soumya Priyadarsini Panda, Surajit Das, Sushri Samita Rout, Suvendu Chandan Nayak, Venkatesh Dalei, and Swarupa Roy participated in the STTP on “Applied Optimization”, NITTTR (K) Extn. Centre, Bhubaneswar, SIT, Bhubaneswar, 16<sup>th</sup> -20<sup>th</sup> January 2024

### **Participation in Workshops**

1. Kasturi Dhal participated in the “SWAYAM NPTEL East Zone Workshop 2023”, IIT Kharagpur at Royal Room City Center-1, Saltlake, Kolkata, 1<sup>st</sup> July 2023
2. Judhithir Dash participated in the Workshop on “LSI to System Design: Silicon to End Application Approach”, ARM Education and STMicroelectronics, 31<sup>st</sup> July - 4<sup>th</sup> August 2023
3. Suvendu Chandan Nayak participated in the Workshop on “National Board of Accreditation (NBA)”, BPUT, Rourkela, 22<sup>nd</sup>-24<sup>th</sup> August 2023
4. Chittaranjan Behera participated in the “5th National Level Workshop on NIRF India Rankings 2024”, 13<sup>th</sup> -14<sup>th</sup> December 2023
5. Nibedita Swain, Rabi Narayan Mishra, Ram Prasad Panda, Laxmi Pathy, Tapas Maji, Gyana R. Biswal, Arnab Pal, Rajan Mishra, Nivedita Pati, Priyanka Kar, Lopamudra Mitra, Pratap R. Mohanty, Ipsita Pahi, Partha Sarathi Behera, Dinesh verma, Sachin Das, and Dipak Ranjan Nayak, participated in the “14<sup>th</sup> National Workshop on Emerging Technologies (NWET-2023) in Electrical Power Engineering with focus on “Green Energy: The Primary Link to Modern India”, SIT, Bhubaneswar, 15<sup>th</sup> -16<sup>th</sup> December 2023
6. Rekha Sahu participated in the National Workshop on "High Performance Computing in Engineering Applications (HPCEA)", NIT Warangal, 28<sup>th</sup> February - 3<sup>rd</sup> March 2024
7. Kumari Anamika participated in the Workshop on “q-PCR Hands-on Training”, Heredity Biosciences, Bhubaneswar, 30<sup>th</sup> June 2024

### **Participation in Seminars/Webinars/Conferences/Other Training Programs**

1. Suvashree Suvadashinee participated in the 3<sup>rd</sup> International Conference on “Global Trends in English Language, Literature and Linguistics”, Department of English, Mila University Center, Algeria, 29<sup>th</sup> - 30<sup>th</sup> July 2023.

2. Nibedita Swain, Lopamudra Mitra, Gyana Ranjan Biswal, Priyanka Kar, Rajan Mishra, Rabi Narayan Mishra, Arnab pal, Pratap R. Mohanty, Ram Prasad panda, and Dipak R. Nayak participated in the seminar on “National Electrical Code of India-2023”, SIT, Bhubaneswar, 11<sup>th</sup> August 2023
3. Chittaranjan Mohapatra participated in the Training Program on “Cloud Computing”, TalentNext, Wipro, 21<sup>st</sup>-25<sup>th</sup> August 2023
4. Pradyumna Kumar Tripathy, Rekha Sahu, Sasmita Parida, and Suvendu Chandan Nayak participated in the Seminar on “Embracing AI in Engineering: Industry, Academia and Upskilling for Success”, MathWorks India Private Limited, 1<sup>st</sup> September 2023
5. Nibedita Swain, Srikrishna Bardhan, Amulya kumar roul, Amiya bhusana Sahoo, Annapurna Mishra, Pradipta Jena, Choudhury Jayant Praharaj, and Biswajit Baral participated in the conference “CCPIS, 2023”, SIT, Bhubaneswar, 1<sup>st</sup>-3<sup>rd</sup> September 2023
6. Bidyadhar Padhi participated in the International Conference on “Transformative Education, Gender Equality, Active Citizenship for Sustainable Developmen”, KISS University, 28<sup>th</sup> October 2023
7. Kumari Anamika participated in the Conference “Recent Advancement in Materials and Manufacturing-2023”, CIPET, Bhubaneswar, 2<sup>nd</sup> - 3<sup>rd</sup> December 2023
8. Lopamudra Mitra, Nibedita Swain, Annapurna Mishra, Debangana Das, Sanghamitra Das, Mahendra Prasad Agasty, and Rohit Kar participated in the “Regional Meet IIC”, Ministry Of Education Innovation Cell, 18<sup>th</sup> December 2023
9. Kumari Anamika participated in the “24<sup>th</sup> Odisha Bigyan ‘O’ Paribesh Congress- 2023”, Berhampur University & Orissa Environmental Society, 18<sup>th</sup>- 19<sup>th</sup> December 2023
10. Soumya Suravi participated in the International Conference on "Cross religious exchanges in Eastern Indian Cultural and Literary Traditions", KIIT University, 15<sup>th</sup> -17<sup>th</sup> February 2024
11. Suvashree Suvadardshinee participated in the Webinar on “Research Ethics, Plagiarism Checking & Removal”, Research Graduate, 17<sup>th</sup> Februry 2024
12. Akshaya Kumar Dash participated in the National Seminar on “Implementation of National Education Policy”, Regional Institute of Education, Bhubaneswar, 16<sup>th</sup> -17<sup>th</sup> February 2024
13. Debahuti Paikaray, Susmita Biswal, and Suvashree Suvadardshinee participated in the “International Conference on Contemporaru Researches in Engineering, Science, Management & Arts (ICRESMA-2024), NFED, Tamil Nadu, 22<sup>nd</sup> -24<sup>th</sup> Februrary 2024
14. Subhashree Ojha and Sweekruti Panda participated in the “International Confrence on "Beyond Hariozons: Exploring The World In World Literature", Central University of Odisha, Koraput, 7<sup>th</sup> -8<sup>th</sup> March 2024
15. Bipin Tripathy, Dharitri Moharatha, Kamalakanta Satpathy, Kumari Anamika, Manoranjan Behera, Manas Ranjan Singh, Siba Sankar Nayak, Subrat Kumar Sahu, Subhashree Prusty, Tusar Parida, Jyoti Sarita Mohanty, and Shashi Bairagi Atla participated in the “6th National

Seminar on Functional Materials for Emerging Technology (FMET - 2024)", Silicon University, 29<sup>th</sup> -30<sup>th</sup> March 2024

16. Manoranjan Behera participated in the "World Env Day Seminar", SOA University, 5<sup>th</sup> June 2024

#### **Faculty Members Completed Certified NPTEL Courses**

1. Rekha Sahu completed NPTEL online Certificate Course and FDP on "Python for Data Science", IIT Madras, July-August 2023
2. Rabindra Kumar Dalei completed NPTEL online Certificate Course on "Introduction to Machine Learning", IIT Madras, July-September 2022
3. Ajit Kumar Behera, Ch. Sajeev Kumar Dash, and Pamela Chaudhury completed NPTEL online Certificate Courses on "Introduction to Machine Learning", IIT Kharagpur, July-September 2023
4. Nivedita Pati completed NPTEL online Certificate Courses and FDP on "Advanced Linear Continuous Control Systems: Applications With Matlab Programming And Simulink", July - September 2023
5. Gyana Ranjan Biswal completed NPTEL online Certificate Courses and FDP on "Introduction To Internet of Things", July-October 2023
6. Gyana Ranjan Biswal completed the Online Certificate Course and FDP on "Advanced Linear Continuous Control Systems Applications With Matlab Programming And Simulink", NPTEL, August-September 2023
7. Rekha Sahu completed NPTEL Online Certificate Course and FDP on "Introduction to Soft Computing", IIT Kharagpur, January-March 2024
8. ChandanPatra, and Ranjit Kumar Behera completed NPTEL Online Certificate Course on "Compiler Design", IIT Kharagpur, January-April 2024
9. Samaleaswari Prasad Nayak completed NPTEL Online Certificate Course on "Introduction to Internet of Things", IIT Kharagpur, January-April 2024
10. Ch. Sajeev Kumar Dash completed NPTEL online Certificate Courses on "Computer Networks and Internet Protocol", IIT Kharagpur, January-April 2024

#### **Ph. D. Guidance (CSE/ MCA)**

<b>Faculty Name</b>	<b>Research Area(s)</b>	<b>Registered Guide in Universities</b>	<b>No. of Scholars Guiding/ Awarded</b>
Bikram Keshari Mishra	Data Mining	SIT, Bhubaneswar	01
Ch. Sanjeev Kumar Dash	Data Mining	BPUT, SIT, Bhubaneswar	02
Pamela Chaudhury	Data Mining	SIT, Bhubaneswar	02
Pradyumna Kumar Tripathy	Parallel Distributed System, Reliability Engineering, Image Processing	BPUT, SIT, Bhubaneswar	04

Faculty Name	Research Area(s)	Registered Guide in Universities	No. of Scholars Guiding/ Awarded
Rabindra Kumar Dalei	Mobile Computing, Cloud computing	SOA University, SIT, Bhubaneswar	04
Soumya Priyadarsini Panda	Natural Language Processing	GIET, Gunupur, SIT, Bhubaneswar	02
Sushri Samita Rout	Computational Intelligence, Data Mining, and Internet of Things	BPUT, SIT, Bhubaneswar	03
Subhendu Chandan Nayak	Cloud Computing	SIT, Bhubaneswar	02

#### 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	04
Ambarish Gajendra Mohapatra	Fiber Bragg Grating Sensors	BPUT, GIRT, SIT, Bhubaneswar, University of Technology, Jaypur	05
Biswajit Baral	Semiconductor Devices	SIT, Bhubaneswar	01
Biranchi Rath	Machine Learning	SIT, Bhubaneswar	01
Debashis Nayak	VLSI Design & Semiconductor Devices	SIT, Bhubaneswar	01
Lopamudra Mitra	Renewable Energy Systems	BPUT	01
Prakash Kumar Rout	VLSI Design & Semiconductor Devices	BPUT, NIT Rourkela, SIT, Bhubaneswar	03
Rabi Narayan Mishra	Renewable Energy Systems	SIT, Bhubaneswar, NIT, Rourkela	02
Soumya Ranjan Samal	Wire Communication; IoT	SIT, Bhubaneswar	01
Sudhanshu Biswal	Semiconductor Device Simulation	SIT, Bhubaneswar, NIT, Goa	04
Sudhansu Kumar Pati	Advanced Semiconductor Device Modeling and Simulation	BPUT, SIT, Bhubaneswar	03
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

Faculty Name	Research Area(s)	Registered Guide in Universities	No. of Scholars Guiding/ Awarded
Mahendra Prasad Agasty	Economics	KIIT University, GIET, SIT, Bhubaneswar	05
Prayag Prasad Mishra	Delay Differential equations	SIT, Bhubaneswar	03
Tusar Parida	Fluid Mechanics	BPUT, SIT, Bhubaneswar	03
Saroj Kanta Misra	Mathematics	SIT, Bhubaneswar	02
Bidyadhar Padhi	Accounting and Finance	SIT, Bhubaneswar	04
Manas Singh	Industrial Engineering, Soft computing	SIT, Bhubaneswar	02
Janmejaya Senapati	Economics, Professional Ethics & Human Values	SIT, Bhubaneswar	03
Suvashree Subhadarshinee	English	SIT, Bhubaneswar	02

### Awards Received by Faculty Members

- Ch. Sanjeev Kumar Dash (Associate Professor, MCA), received certificate of appreciation, NPTEL DISCIPLINE STAR, July–December 2023.
- Aditya Acharya (Associate Professor, ECE) received the best paper award for the paper “Enhancement of dark images in presence of optical sources using iterative homomorphic filter”, in the ‘Multimedia and Signal Processing’ track, International Conference on Circuit, Power, and Intelligent Systems (CCPIS-2023), Silicon Institute of Technology, Bhubaneswar, September, 2023.
- Annapurna Mishra (Associate Professor, ECE) received the best paper award for the paper “Biogeography Based Optimized Hybrid Chebyshev FLANN for Fingerprint Classification”, Intelligent Systems & Applications track, International Conference on Circuit, Power, and Intelligent Systems (CCPIS-2023), Silicon Institute of Technology, Bhubaneswar, September, 2023.
- Kumari Anamika (Assistant Professor, BSH) received the best paper presentation award for the paper “Isolation, Identification, and Heavy Metal Toxicity Test of Microorganisms isolated from Paper, Textile, and Paint Industry Effluents”, 24th Odisha Bigyan ‘O’ Paribesh Congress, 2023.
- Anita Mohanty (Associate Professor, EE) honored with “The World Class Educators Honors-23” award in the category “The World Class Researcher”, 2023.

### Faculty Members as Resource Person/ External Experts

- Pamela Chaudhury (Sr. Assistant Professor, CSE) served as a resource person in the three-day online STTP on Artificial Intelligence, S. K. D. A. V Government Polytechnic, Rourkela, Odisha, 18<sup>th</sup>-20<sup>th</sup> October 2023.
- Pradyumna Tripathy (Associate Professor, CSE), was empaneled by CBSE to act as a jury for the evaluation of projects for the Regional Round Science Exhibition, 8<sup>th</sup> -9<sup>th</sup> December 2023.



- Pradyumna Kumar Tripathy (Associate Professor, CSE) served as the Session Chair in the 21st OITS International Conference on Information Technology (OCIT 2023), NIT Raipur, 13<sup>th</sup>-15<sup>th</sup> December 2023.
- Pradyumna Tripathy (Associate Professor, CSE), delivered a talk on “Critical Thinking and Problem Solving”, Srusti Academy of Management, 30<sup>th</sup> September 2023
- Pamela Chaudhury (Sr. Assistant Professor, CSE) served as the Session Chair for the 2nd IEEE International Conference on Advancements in Smart, Secure and Intelligent Computing, KIIT University Bhubaneswar, 29<sup>th</sup> January 2024.
- Pradyumna Kumar Tripathy (Associate Professor, CSE) served as the Session Chair for the 4th IEEE International Conference on Emerging Systems and Intelligent Computing (ESIC 2024, KIIT University, Bhubaneswar, 9<sup>th</sup>-10<sup>th</sup> February 2024.
- Pradyumna Kumar Tripathy (Associate Professor, CSE), served as the Session Chair for the International Conference on Cutting Edge Technology in Computing, Communications and Intelligence (ICCTCCI-2024), IMIT, Cuttack, 23<sup>rd</sup> - 24<sup>th</sup> March 2024.

## International Conferences Organized

### International Conference on Circuits, Power, and Intelligent Systems (CCPIS 2023)

Silicon Institute of Technology, Bhubaneswar organized a three-day International Conference on Circuits, Power, and Intelligent Systems (CCPIS) 2023, in hybrid mode during 1<sup>st</sup> - 3<sup>rd</sup> September 2023. The chief guest of the event was Prof. Banshidhar Majhi, Vice Chancellor, Veer Surendra Sai University of Technology (VSSUT), Burla, Odisha. Dr. Chinmoy Saha, Associate Professor, Indian Institute of Space Science and Technology, Kerala, was the Guest of Honor. The keynote speakers included Dr. Goutam Chattopadhyay, Senior Scientist, NASA Jet Propulsion Laboratory, US, Dr. Ramappa Nagaraja, Managing Director, PRDC Pvt. Ltd, Bengaluru, Dr. Bhaskaran Raman, Professor, IIT Bombay, Namerita Khanna, Director of RF-CMOS SoC Development at NXP Semiconductors, Dr. Satya Kumar Vankayala, Architect, Samsung R and D Institute, Bangalore, and Dr. S and deep K. Shukla, Professor, IIT Kanpur. During the conference there were 132 paper presentations in 6 different tracks.



## FDP/STTP Organized

### STTP on Development of Laboratory Instruction and Manual

Silicon's IQAC collaborated with the Bhubaneswar extension center of the NITTTR, Kolkata to organize a STTP on “Development of Laboratory Instruction and Manual” during 17<sup>th</sup> -21<sup>st</sup> July 2023. The five-day program was conducted by Dr. Subrata Mondal, Associate Professor, Mechanical Engineering, NITTTR, Kolkata. He shared the best practices for curating lab manuals. The participants visited the mechanical workshop of our institute where Dr. Mondal demonstrated a few activities using the equipment present in our workshop and conducted some hands-on sessions for the participants.





### **FDP on Mathematical Concepts and Building Blocks for Simulation**

The Department of BSH organized a FDP on “Mathematical Concepts and Building Blocks for Simulation” in two phases during 7<sup>th</sup> - 23<sup>rd</sup> August 2023. The first phase was held from 7<sup>th</sup> - 11<sup>th</sup> August 2023 and the second phase was conducted from 21<sup>st</sup> - 23<sup>rd</sup> August 2023. Dr. Saroj Kanta Misra, Professor of Mathematics conducted the FDP. Eleven faculty members from various departments of Silicon participated in the FDP to learn about various topics like random number generation, probability distributions, and variance minimization techniques.



### **FCBP on IoT Hands-on Approach**

The Department of CSE organized a six-day Faculty Competency Building Program (FCBP) on “IoT Handson Approach” during 7<sup>th</sup> - 12<sup>th</sup> August 2023. The FCBP was conducted by Mr. Mukesh Singh, Senior IoT Developer at Robogenesis Digital Services Pvt. Ltd., Bhubaneswar. A total of 34 faculty members participated in the FCBP and delved into the development of IoT applications, focusing on the utilization of the Raspberry Pi 4 Model B board, an extensive range of modules, and various sensors. They also performed hands-on activities to gain valuable insights into IoT application development.



### **ATAL FDP on AI in E-Automobile Technology**

The Department of EEE organized a FDP on “Artificial Intelligence in E-Automobile Technology and its Integration with Sustainable Energy” from 6<sup>th</sup> -11<sup>th</sup> November 2023. The objective of the FDP was to make the participants aware of the concepts of Renewable Energy and Electric Vehicle (EV) technology. A total of fifty faculty members, post graduate students, and research scholars attended the FDP to enrich their knowledge and gain expertise in this cutting-edge technology.



### **ATAL FDP on Nanotechnology and Embedded Systems**

The Department of EE organized an ATAL FDP on Nanotechnology and Embedded Systems from 18<sup>th</sup> -23<sup>rd</sup> December 2023. The FDP aimed to raise awareness of recent advances in solid-state devices, VLSI circuits, and embedded systems. Dr. Angsuman Sarkar was the Chief Guest and Dr. Debashis De as the Guest of Honor for the FDP. The keynote speakers included experts from academia and industry. Fifty seven faculty members actively participated, benefiting from hands-on training sessions and enhancing their skills in cutting edge technologies.



## Workshops Organized

### Workshop on PSpice Software

The Department of EEE and the IEEE Student Chapter jointly organized a one-day workshop on “Beginner Boot Camp on PSpice Software” on 14<sup>th</sup> October 2023. The workshop provided the participants with a basic awareness of the simulation of electrical and electronic circuits using OrCAD Capture CIS PSpice simulation tools and helped them understand circuit performance using PSpice advanced analysis. The workshop was conducted by Dr. Ramaprasad Panda, Professor, Department of EEE. Dr. Panda described the installation procedure of the PSpice simulation tool and explained bias point calculation, DC sweep analysis, and AC sweep.



### NES 2023

The Department of EE collaborated with its industry partner Sevia Multimedia to host a 3-day Workshop on Nanotechnology and Embedded Systems (NES 2023) in hybrid mode from 30<sup>th</sup> November to 2<sup>nd</sup> December 2023. The objectives of NES was to create awareness of the recent advances in solid-state devices, VLSI circuits, and embedded systems. The chief guest of the workshop was Dr. Ajit Panda, Director of VVDN Technologies and the Guest of Honor was Mr. Mrinal Das, Head of Hardware Design Group (R&D) at Synopsys. The workshop comprised of expert talks and hands-on training sessions by eminent speakers from leading semiconductor companies.



### NWET 2023

The Department of EEE organized the 14<sup>th</sup> National Workshop on Emerging Technologies (NWET 2023) on 16<sup>th</sup> December 2023 on “Green Energy: The Primary Link to Modern India”. The inaugural session of NWET 2023 was graced by Shri. Bhadresh Bachubhai Mehta, Director of State Load Dispatch Centre (SLDC), Odisha Power Transmission Corporation Limited (OPTCL). The workshop comprised of expert talks by Mr. P.K. Pattanaik, Senior General Manager, OPTCL, Mr. KVS Baba, former Chief Managing Director of Power System Operation Corporation Limited (POSOCO), Mr. Gopa Kumar, Managing Director of Cape India Pvt. Ltd., Mr. Bibhu Charan Swain, Energy consultant at Powertech Solution and Mr. Raj Singh Niranjana, Managing Partner at Trans India Law Associates.



### Workshop on Electrical and Electronic Devices

The Department of EEE organized a workshop on “Electrical and Electronic Devices” on 2<sup>nd</sup> March 2024. The objective of the workshop was to improve the participants’ foundational technical knowledge for real-world applications, integrate theoretical understanding with practical knowledge, and offer a forum for productive information exchange. Mr. Santanu Sen, Assistant Professor of Electrical Engineering at Odisha University of Technology and





Research (OUTR) was the external judge of the workshop. He assessed the students' comprehension of the operation of the devices and evaluated their presentation skills.

## **Seminars/Webinars/ Technical Talks/Other Programs**

### **Webinar on Cyber Security in Electrical Engineering**

Silicon collaborated with IEEE Power and Energy Society (IEEE PES), Bhubaneswar Chapter to host a webinar on "Challenges and Opportunities of Cyber Security in Electrical Engineering" on 25<sup>th</sup> August 2023. Dr. Bhavesh Kumar R. Bhalja, Professor, Department of EE, IIT Roorkee was the expert speaker of the webinar. In his address, he highlighted the importance, challenges, and opportunities of cyber security in electrical engineering. He also discussed the policies, procedures, and awareness regarding the cyber security issues in the network sector.

### **Technical talk on "Roles and Responsibilities of an IT Engineer"**

The ISTE Student Chapter at Silicon organized a technical talk on "Roles and Responsibility of an IT Engineer and Career Opportunities in the IT Sector" in the virtual mode on 11<sup>th</sup> November 2023. The talk was delivered by our alumnus Swapna Sanjog Mohanty from the CSE 2022 graduating batch. Currently, he is working as a Software Development Engineer at Amazon. He imparted invaluable insights into the roles and responsibilities of an IT Engineer and emphasized diverse career opportunities within the IT sector.



### **Invited Talk on "ISRO: India's most Successful Startup"**

The IEEE and the ISTE Student Chapters at Silicon jointly organized an expert talk on "ISRO: India's Most Successful Startup" on 15<sup>th</sup> December 2023. The expert talk was delivered by Ms. Gita Aravamudan, writer, and journalist. Ms. Aravamudan has co-authored a book entitled 'ISRO: A Personal History' along with Mr. Ramabhadran Aravamudan. Mr. Aravamudan is an Indian space scientist and engineer associated with the Indian space program since 1962. The talk aimed to showcase ISRO's journey, highlight key milestones, and inspire an understanding of the challenges and achievements that shaped India's space program.



### **AIPEM 2023**

The Department of EEE organized the 3<sup>rd</sup> All-India Power Engineers' Meet (AIPEM) SPARK Engineers' Congress Symposium on "Emerging Technologies, Now and Next" on 17<sup>th</sup> December 2023. The objective of this meet was to provide exposure to the well-researched views of experts in various sectors of engineering. It consisted of two panel discussions. Each session began with an expert talk which was followed by a discussion among the luminaries from industry and academia. AIPEM 2023 was convened by Dr. Ramprasad Panda, Professor, EEE, and coordinated by Dr. Tapas Kumar Maji, Assistant Professor, EEE. A total of one hundred and sixty participants including students, faculty members and industry experts attended the meet.



### Expert talk on “Relevance of Indian Traditional Knowledge”

The Department of BSH collaborated with the IQAC to organize an expert talk on “Relevance of Indian Traditional Knowledge” on 20<sup>th</sup> January 2024. The expert talk was delivered by Dr. Debi Prasad Mishra, Director & Professor of Mechanical Engineering at the National Institute of Technical Teachers’ Training and Research (NITTTR), Kolkata. In his talk, Dr. Mishra created awareness about the importance of Indian traditional knowledge and emphasized the potential of transforming this traditional wisdom into profitable ventures that can benefit humanity.



### Expert talk on “Chromosomal Cohesion and Separation in Aneuploidy and Tumorigenesis”

The JBS Haldane Centre for Molecular Medicine (HCM) at Silicon collaborated with inDNA Life Sciences Pvt. Ltd. to organize an expert talk on “Role of Chromosomal Cohesion and Separation in Aneuploidy and Tumorigenesis” on 22<sup>nd</sup> January 2024. The talk was delivered by Dr. Debananda Pati, Professor of Paediatric Oncology at Baylor College of Medicine, Houston, Texas, USA. In his talk, Dr. Pati shed light on Separase as a drug target for cancer therapy and discussed the latest breakthroughs to foster a deeper understanding of the ongoing battle against cancer.



### Expert talk on “Introduction to Deep Learning”

The Department of CSE organized a technical talk on “Introduction to Deep Learning” on 31<sup>st</sup> January 2024. The talk was delivered by Mr. Shanti Swaroop, a technical architect at Tata Consultancy Services Limited (TCS). The objective of the talk was to enhance the understanding of Least Mean Squares (LMS) and Gradient Descent algorithms and learn about building them from scratch in Python, for various signal processing and optimization applications. In his talk, the speaker explained that these algorithms are fundamental optimization techniques widely used in machine learning and signal processing.



### FMET 2024

The Department of BSH organized the 6<sup>th</sup> National Seminar on Functional Materials for Emerging Technology (FMET 2024) from 29<sup>th</sup>-30<sup>th</sup> March 2024. The two-day program focused on new developments in advanced functional materials. Distinguished speakers including Dr. Kulamani Parida from Siksha ‘O’ Anusandhan University, Bhubaneswar, Dr. Pranati Nayak from Institute of Chemical Technology, Bhubaneswar, Dr. Bikash Kumar Jena, CSIR-Institute of Minerals and Materials Technology, Bhubaneswar, Dr. Satya Prakash Sahoo, Institute of Physics, Bhubaneswar and Dr. Satyaprasad P Senanayak from National Institute of Science Education and Research, Bhubaneswar shared their knowledge and expertise.



### Seminar on “Defence Innovation and Excellence”

Silicon collaborated with Odisha Corporate Foundation (OCF) to organize a seminar on “Defence Innovation and Excellence” on 6<sup>th</sup> April 2024. Brigadier K.K. Nayak, former Deputy Director General of Army Headquarters & Scientist F delivered a presentation on ‘Defence Indigenization and Procurement’. Mr. Om Prakash, Chief Operating Officer (COO) of IG Drones shared his presentation on “Defence manufacturing: Journey of IG Drones”. Mr. Deepak Singh, Senior Consultant (Investment Promotion) at Industrial Promotion & Investment Corporation of Odisha Ltd. (IPICOL) gave his insights on ‘Defence and Aerospace Policy of Odisha’. Budding entrepreneur Mr. Satyabrata Satpathy, Chief Executive Officer (CEO), Co-Founder, and Director of BONV Technology Pvt. Ltd. shared his journey of being an entrepreneur in the defence sector.



### Other Events/Activities

#### QCFI's 5th Chapter Convention on Quality Concepts

Silicon Institute of Technology, Bhubaneswar hosted the Quality Circle Forum of India's (QCFI) 5<sup>th</sup> Chapter Convention on Quality Concepts (CCQC) during 9<sup>th</sup> - 10<sup>th</sup> September 2023 on the theme “Nurture Quality Concepts for a Better Future”. Mr. Sashi Shekhar Mohanty, President of QCFI, Bhubaneswar Chapter, was the Chief Guest of the event. More than 800 delegates from various core and manufacturing industries like NALCO, BALCO (Bharat Aluminium Company Limited), Jindal Steel Power, Jindal Stainless, Tata Steel Mining, Visa Steel, Utkal Alumina (HINDALCO), Tata Steel, Bhilai Steel Plant, Tata Power, OMC (Odisha Mining Corporation), RCF (Rashtriya Chemicals and Fertiliser), Tata Consumer Products, and Paradeep Phosphates Limited shared insights and solutions to industry challenges.



#### Faculty Connect Program

Silicon conducted its first Faculty Connect Program on 11<sup>th</sup> May 2024. The program aimed to provide a platform for university faculty members to discuss and understand important academic procedures and initiatives. Dr. Jaideep Talukdar, the Vice-Chancellor, delivered the welcome address. Dr. Debabrata Kar, Dean (Instruction), outlined updates to academic regulations and curriculum. Dr. Saroj Kanta Misra detailed Silicon's teaching-learning practices, while Dr. Ramaprasad Panda, Dean (Student Affairs) explained admission procedures. Dr. Chittaranjan Behera covered the student mentorship program, and Dr. Manoranjan Behera, Dean (Research & Consultancy) discussed Ph.D. rules and research opportunities. Prof. Pradipta Kumar Mohapatra, the Registrar, addressed HR matters, and Dr. Saroj Kanta Misra concluded the session.





## Summer Internship Programme-2024

**For B.Tech-1<sup>st</sup> & 2<sup>nd</sup> Year, MCA & MSc-DS- 1<sup>st</sup> Year (25th June-20th July 2024)**

Sl. No.	Name of Course	Conducted By
1	Python Programming, Machine Learning, and Deep Learning for Industry	Dr.Biranchi Rath & experts from BARC
2	Digital CMOS VLSI Design and Verification: Verilog HDL and Full-Custom Approach	Dr. Debashis Nayak and Advance VLSI Team
3	Mern Stack	Preplabs
4	DSA using Python	Preplabs
5	Cyber Security	Preplabs
6	Django with Python	Preplabs
7	Java Programming( Advance)	RISE ( Hyderabad)
8	Electronics sensor design and programming	Robogenesis
9	Beginning With RUST	Sourav Mishra & Mahavir Das
10	Introduction to CubeSat and Satellite Communication	Dr. Saroj Rout and Experts from Indian Institute of Space Science and Technology
11	Front-End Web Application Development	Squibix
12	AWS masters	Sumit Sah
13	Azure masters and Introduction to Generative AI	Sumit Sah
14	Mastering Android Development with Jetpack Compose	Sumit Sah
15	PYTHON Application Development	Syllogistek Pvt. Ltd.
16	SEO & Digital Marketing	Syllogistek Pvt. Ltd.
17	Mobile APP Development with REACT Native	Syllogistek Pvt. Ltd.
18	Foundation Course On Core Industry	Sparkspot Talent Management Service Pvt. Ltd.
19	IoT and Industrial Applications using Matlab	Dr. Amiya Sahu & Industry Experts from NEMHANS ( RF )
20	Data Science ,ML& Deep Learning Bootcamp using Python	Syllogistek Pvt. Ltd.
21	Embedded System and Basic Programming Skill in EV Technology	Dr. Pratap Ranjan Mohanty and experts from NextGen Technologies

**For 3<sup>rd</sup> Year Students (10th June-18th July 2024)**

Sl. No.	Name of Course	Conducted By
1	Digital System Verification using System Verilog	Dr. DebashisNayak & Scaledge India
2	Specialized Training on Power System Analysis Through Hands-On-Practice	Dr. Ramaprasad Panda & PRDC
3	SEO & Digital Marketing	Syllogistek Pvt. Ltd.
4	Azure Bigdata Engg	Pranab Satapathy (Technical Lead Azure data Engg),Tiger Analytics
5	Master React JS with Project Implementation	Big Binary
6	Data Science, ML & Deep Learning Bootcamp	Syllogistek Pvt. Ltd.

Sl. No.	Name of Course	Conducted By
	Using Python	
7	Django with Python	Codebeat
8	DSA using C++	Codebeat
9	Full Stack Web developmet	Codebeat
10	Security Analysis , Investing & Trading	Sukhendu Patnaik
11	IT/OT Integration ( PLC, Mindsphere (Cloud))	SIEMENS Lab ( Skill Development Institute BBSR)
12	Mastering Android Development with Jetpack Compose	Sumit Sah
13	Devops masters	Sumit Sah
14	Mobile APP Development with REACT Native	Syllogistek Pvt. Ltd.
15	Master React Js With Project Implementation	Syllogistek Pvt. Ltd.

### Campus Placement 2023-24

During the AY 2023-24, 75 companies visited the campus for placement. A total of 435 jobs were offered to B.Tech. students, 57 to MCA students, and 18 to MSc DS students. The major recruiters were Accenture, TCS, ApMoSys, Genpact, TATA Power, Kreativan Technologies, Deloitte, PwC, Capgemini, Spikewell, Pcon, Rumangi, PHYTEC, VVDN, Electrobolz. The overall placement figures for 2023-24 are:

Branch	Total Students	Eligible	Students Placed	Job offers	% Placed on Eligible
CEN	57	55	41	48	74.55
CSE	211	206	146	194	70.87
CST	67	65	52	67	80.00
ECE	120	107	74	81	69.16
EEE	49	38	34	37	89.47
EIE	10	10	8	8	80.00
<b>Total</b>	<b>514</b>	<b>481</b>	<b>355</b>	<b>435</b>	<b>73.80</b>
MCA	72	72	50	57	69.44
MSc (DS)	25	24	17	18	70.83

### Higher Salary 2024:

Higher Salary	>= 30 LPA	>=28 LPA	>=20 LPA	>= 13 LPA	>= 10 LPA	>= 9 LPA	>= 8 LPA	>= 7 LPA	>= 5-6 LPA
No. of Students	1	1	1	2	7	9	12	45	102

### Practice School 2024:

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)
37	224	261	69%	65	16K	60K	5.38 LPA

## Achievements by Students

### GATE-2024 Achievers

Sl. No.	Branch	Regd. No.	Name	AIR
1	CSE	20BCSB28	Payal Pani	820

### CAT-2023-24 Achievers

Sl. No.	Branch	Regd No.	Name	Percentile
1	CSE		Aditya Sarkar	95.4

### Higher Studies: 2023-24

Sl. No.	Branch	Name	Course Admitted to	Name of the University
1	CSE	Avipsa Bhujabal	MS (Data Science)	University of Buffalo, New York

## Other Student Achievements

### KIITMUN 2023 Winners

SiliconTech students participated in the KIIT International Model United Nations (MUN) held from 6<sup>th</sup> - 8<sup>th</sup> October 2023 at KIIT University, Bhubaneswar. Namrata Mishra (CST, 2024) achieved the prestigious position of Director of UNESCO (United Nations Educational, Scientific, and Cultural Organization) as a part of the Executive Board of the organization. A total of 34 students from SiliconTech participated in the event and brought laurels to the institute for their remarkable achievements.

### Odisha Startup Yatra 2023 Team Selection

Two teams from Silicon were selected among the top ten teams for their ideas in the Odisha Startup Yatra 2023 organized by the Government of Odisha on 29<sup>th</sup> January 2024 at O-Hub, Bhubaneswar. Shreeman Debasmit (CST, 2024) and Dwarikanath Choudhary (CSE, 2024) shared their project in the field of aerial vehicles presenting a new generation of vertical take-off and landing craft with rotating flaps and wings. Their technology, which promises to revolutionize traditional aircraft design, received the highest score in the event. Samarpita Nayak (CSE, 2024) and Swayamsiddha Mohanty (CST, 2024) presented their idea for a ZenCharge EV charging Station with a cafe and resting area on National Highways and public places for travellers. Each team won a cash prize of INR three lakh for being selected among the top ten ideas.

### Gold Medal in Data Analytics Training

Ardhendu Mishra, from the B.Tech. (ECE) batch of 2023 received the Gold Medal for being the top achiever in Data Analytics Training using the latest industry technologies– Snowflake and Power BI at Odisha Upskilling and Placement Program organized by the Government of Odisha in collaboration Certificate of Training from the Hon'ble 5T Chairman Shri. VK Pandian on 12<sup>th</sup> March 2024 at the Training Convocation Ceremony held at Kalinga Stadium, Bhubaneswar.

## Workshops/Technical Programs Organized for Students:

### Internal Hackathon for Selection for SIH2023

Silicon's Student Innovation & Promotion Cell (SIPC) conducted an internal hackathon at the institute level from 22<sup>nd</sup> -23<sup>rd</sup> September 2023 to select teams for Smart India Hackathon (SIH) 2023. Out of 30 participating teams in both software and hardware





categories, 22 teams in the software category and 2 teams in the hardware category were selected for the national level. The external members in the panel of judges included Dr. Rabindra Kumar Barik, Associate Professor, School of Computer Applications, KIIT University, Mr. Malay Kumar Padhi, Technology Architect, Infosys, Mr. Umasankar Das, Manager, Cognizant Technologies and Mr. Nitish Kumar, Senior Software Engineer, Mindfire Solutions.

### Apticode Quest

The ISTE Student Chapter organized the “Apticode Quest” on 11<sup>th</sup> November 2023 for the B.Tech. graduating batch of 2027. The event aimed to acquaint participants with coding and various coding platforms, fostering the development of their aptitude and coding skills. The participants appeared for a test that was designed to offer insights into the potential types of questions they may encounter in the future. Md Tameez Alam, Omkarnath Mohapatra, K. V. Ramana and Subhashish Praharaj from the CSE 2027 graduating batch secured the first, second, third, and fourth positions respectively in this event.



### Techtronics 2023

The Circuit Club and Robotics Club, under SIPC hosted Techtronics on 25<sup>th</sup> November 2023. Techtronics is a platform that fosters innovation, where students showcase technical prototypes (hardware and software) and engage in spirited competition with peers from diverse institutions. A total of 250 students participated in the event. The senior division featured 21 hardware teams and 22 software teams, while the junior division comprised of 10 hardware teams and 5 software teams.



### Developers' Summit 2023

The Google Developer Student Club (GDSC) collaborated with the SWITCH Club to organize the ‘Developers’ Summit 2023’ on 16<sup>th</sup> December 2023. The theme for this year’s summit was “Innovation Unleashed”. Mr. Nitish Kumar conducted a session on “Application Development Essentials”, Mr. Sovit Acharya discussed about “Cloud, Containerization, and Docker” and Mr. Susant Rout conducted a session on “Journey of Innovation in Programming Education”.



### NIRMAN 3.0

Silicon University organized its annual tech fest NIRMAN 3.0 in collaboration with the Indian Chamber of Commerce (ICC) from 19<sup>th</sup> -21<sup>st</sup> February 2024. The inauguration ceremony comprised of expert talks by Dr. Jaideep Talukdar, Shri J. B. Pany, Chairperson, ICC Odisha, Dr. Sanjay Pattnaik, Convenor (HR & IR), ICC Odisha, Dr. Mahendra Prasad Agasty, President of Silicon’s IIC, Shri Sunil Taneja, Managing Director, Kasi Sales & Services, Dr. Ashok Badamali, Founder & CEO,



Inofinity Research and Development, Shri G G Pal, Deputy Chief Executive Officer, Vedanta, and Shri Jyoti Prakash Pal, Director & Regional Head, ICC Odisha. A total of 720 students from across the state participated in various competitions like Line Follower, Robo Race, Hacknation, and Idea Presentation.

### Code Relay

The SIPC and the ISTE student chapter organized Code Relay, a coding competition on 1<sup>st</sup> March 2024. Code Relay was hosted using real-world coding challenges from the HackerRank website. A total of 45 teams comprising 3 members each participated in the event. The winners were Aditya Kumar Dutta, Ashish Singh, and Manish Kumar from the CSE 2025 batch. The runners-up were Santosh Rout (CSE), Ayush Raj (ECE), and Piyusha Pritam Nayak (CEN) from the 2026 batch.



### Workshop on “Flutter”

The Department of CSE collaborated with the GDSC to organize a workshop on “Flutter” on 19<sup>th</sup> April 2024. Industry expert Abhijeet Mohapatra from Smartters, Bhubaneswar was the external expert for the workshop. He provided practical insights into Flutter’s features and cross-platform efficiency. He further emphasized Flutter as the primary tool for Google Fuchsia app development, showcasing its capability to create apps for iOS and Android from a single codebase.



### Hands-on session on “Printed Circuit Board Design”

The Department of collaborated with the IEEE Student Chapter to organize a one-day hands-on session on “Printed Circuit Board (PCB) Design” on 20<sup>th</sup> April 2024. The session was conducted by Mr. Kunal M, Founder & Director, Logiczap NextGen Technologies, Kolkata. A total of seventy-three students participated in the session to acquire practical skills in designing single-sided and multilayer printed circuit boards. In the hands-on session, they created a multilayer PCB with DIP/SMD components for a voltage regulator and a single-sided PCB for an infrared sensor.



### Workshop on “Machine Learning”

The Department of CSE collaboration with the GDSC and organized a workshop on “Machine Learning” from 24<sup>th</sup> -26<sup>th</sup> April 2024. Led by Ansuman Parija, AI/ML Lead at GDSC Silicon, the workshop began with an introduction to machine learning basics, covering supervised and unsupervised learning, regression, classification, clustering, and various models. The second day featured practical applications with interactive labs using sci-kit-learn,





pandas, and Numpy. Participants explored real-world examples of machine learning. The final day concluded with a project showcase on data preprocessing, model development, evaluation, and validation.

### **Workshop on 'Robotics'**

The Silicon Robotics and Circuit Club organized a workshop on "Robotics" on 26<sup>th</sup> April 2024. The objective of the event was to foster knowledge exchange, collaboration, and innovation in the field of robotics. One of the keynote speakers, Mr. Satish Kumar Das, an Assistant Professor at Silicon, highlighted the future of robotics, focusing on autonomous systems and their potential applications. The second speaker, Priyanshu Das, our student discussed advancements in line follower and manual robots, emphasizing the impact of robotics on efficiency and cost-effectiveness in manufacturing. The event also featured a hands-on session on robotics programming using Python and ROS (Robot Operating System).



### **Workshop on "Blockchain"**

The GDSC at Silicon collaborated with CrewSphereICP to organize a workshop on "Blockchain" on 27<sup>th</sup> April 2024 as part of the Summer of Techcampaign. The workshop aimed to educate participants on blockchain technology, focusing on its latest research and industry applications. They explored hash functions' key attributes—concealment, determinism, collision resistance, and puzzle-friendliness—and studied blockchain's structure as a tamper-resistant linked list of hashed data blocks. A live code demonstration illustrated basic blockchain operations, reinforcing comprehension of consensus mechanisms, block creation, and hashing techniques.



### **Hack-O-12**

The ISTE Student Chapter at Silicon collaborated with the SIPC to organize "Hack-O-12", a hackathon on 27<sup>th</sup> April 2024. The event aimed to enhance participants' time management, collaboration, problem-solving, and coding skills while fostering creativity. 'Hack-O-12' evaluated logical reasoning and problem-solving under time constraints. Participants generated ideas in various areas, including the Internet of Things (IoT), Augmented Reality & Virtual Reality (AR/VR), finance tech (FinTech), social impact, and education tech (EdTech). Each team used different technologies to implement their concepts.



### **Workshop on "React"**

The Department of CSE collaborated with the GDSC to organize a workshop on "React" from 29<sup>th</sup> - 30<sup>th</sup> April 2024. The workshop aimed to provide participants with a deep understanding of React

principles and practical applications. Deepjyoti Nayak (CSE, 2025), Outreach Lead of GDSC Silicon led the first day, covering React basics, React Hooks, and environment setup. Abhinav Singh (CSE, 2025), Web Development Lead of GDSC Silicon led the second day, exploring the Gemini API, API key generation, and integrating Gemini for context responses and button functionality in machine learning stacks.



### Software Sprint

The GDSC at Silicon collaborated with the Department of CSE to organize “Software Sprint: A Software Engineering Competition” on 5<sup>th</sup> May 2024. Participants learned about agile methodologies like Scrum and Kanban, coding standards, testing strategies, and the Software Development Lifecycle (SDLC). B.Tech. students from the 2026 and 2027 batches showcased their software engineering skills by developing innovative project concepts. The projects were presented to a panel of experts, including industry professionals Mr. Nihar Ranjan Rout and Mr. Akash Mohapatra, and Silicon faculty members Dr. Pulak Sahoo and Dr. Saumyaranjan Das.



### Skill Project Exhibition

The Department of EE in collaboration with the SIPC, organized a Skill Project Exhibition on 9<sup>th</sup> May 2024. The event aimed to nurture a new generation of skilled creators by fostering creativity and hands-on learning. The exhibition highlighted the spirit of competition that drives technological innovation, featuring projects from over 150 participants. The judging panel included Dr. Saroj Rout, Dr. Jayakrushna Mohanty, Dr. Jayant Praharaj, and Dr. Rajan Mishra.



### Drone Workshop

Silicon's SIPC and IIC in collaboration with UDR Technology, Bhubaneswar, organized a Drone workshop from 14<sup>th</sup>- 28<sup>th</sup> May 2024. The workshop provided participants with a comprehensive introduction to the world of drones, designed for individuals with little to no prior experience. Over two weeks, 32 students gained theoretical knowledge, practical skills in assembling a drone, and learned to calibrate and fly it safely. The workshop equipped participants with the necessary skills to calibrate a drone and remote control, ensuring safe and controlled flight, and included flight training from 23<sup>rd</sup> – 28<sup>th</sup> May emphasizing the importance of pre-flight checks.





## Activities of the ED Cell & IIC

### World Entrepreneur's Day 2023

The Entrepreneurship Development (ED) Cell in collaboration with the Institution Innovation Council (IIC) organized an expert talk by Mr. Suresh Nayak, Chairman, Silicon TechLab to celebrate World Entrepreneurs' Day on 21<sup>st</sup> August 2023. The objective of this event was to educate, inspire, and empower the audience by sharing strategies for navigating the challenges and opportunities that come with entrepreneurship.



### MSME Hackathon 3.0

SiliconTech's MSME (Micro, Small and Medium Enterprises) incubator conducted the MSME Hackathon 3.0 specifically for the women innovators on 30<sup>th</sup> August 2023. A total of ten innovative ideas were received out of which the two most promising ideas were selected to be forwarded to MSME, New Delhi, for the next stage of processing. Those ideas that successfully pass through the subsequent rounds will be eligible to receive funding of up to Rs 15 lakhs from the institute's MSME incubator for further development.



### Start-up Odisha Yatra 3.0 van campaign

Startup Odisha Yatra 3.0, a flagship initiative of Startup Odisha, conducted a van campaign at SiliconTech campus on 13 September 2023 to promote entrepreneurship and inspire young minds. Hon'ble Chief Minister Shri Naveen Patnaik launched this initiative on 11<sup>th</sup> September 2023 to nurture innovation, support grassroots innovators, and encourage women entrepreneurs. It plans to hold bootcamps in over 200 educational institutions across 30 districts in the state. Dr. Mahendra Prasad Agasty, Head of the Entrepreneurship Development Cell (ED Cell) addressed the gathering at the campaign and our students pitched their innovative ideas.



### Orientation Programme of ED Cell

The ED Cell orientation program was held on 30<sup>th</sup> September 2023 at Silicon Institute of Technology, Bhubaneswar. The program was attended by 140 students. Dr. Mahendra Prasad Agasty, faculty-in-charge of ED cell spoke about the importance of entrepreneurship to the students. The program was followed by a series of fun activities (quiz and riddles) related to entrepreneurship.



### National Innovation Day 2023

The ED Cell and IIC observed Innovation Day on 15<sup>th</sup> October 2023 on the auspicious occasion of Dr. APJ Abdul Kalam's birthday. The program began with a tribute to Dr. Kalam by narrating his inspiring journey. For this occasion, a quiz programme was organized for the students and 43 students attended the program. The winners were awarded with prizes.

### National Pollution Control Day 2023

The National Pollution Control Day is celebrated on 2<sup>nd</sup> December every year in India to raise awareness about the different measures to control pollution and the prevention of industrial disasters. The members of the ED cell delivered a comprehensive address to the participants, enlightening them on various measures essential for mitigating pollution. The students also shared their perspectives on how they can personally contribute to pollution reduction through minor adjustments in their daily routines.



### 'My Story' by Successful Innovator

The IIC and ED cell organized a motivational session titled 'My Story,' featuring the accomplished innovator, Dr. Birendranath Banerjee on 2<sup>nd</sup> December 2023. In his talk, Dr. Banerjee, the Managing Director of inDNA Life Sciences, shared his compelling journey, focusing on the transformative potential of DNA-based diagnostics. He illustrated the vision of in DNA Life Sciences, highlighting how personalized medicine and DNA-based diagnostics empower individuals to manage their health and prevent lifestyle diseases. The session, marked by interactive Q&A discussions, sparked enthusiasm and curiosity among the audience.



### 'My Story' by Successful Entrepreneur

The IIC and ED cell organized an inspiring session titled 'My Story' on 2<sup>nd</sup> December 2023. The event featured Mr. Jayjit Dash, a successful entrepreneur who shared his remarkable journey from Silicon Valley to leaving a profound impact on healthcare and hospitality in Odisha. A Wharton MBA and IIT Kharagpur alumnus, Mr. Dash engaged the audience with his captivating narrative, shedding light on his ventures, including The BOMBAY Cafe and Restaurant, and the ASHWINI's PHARMACY chain. His pivotal role in the ASHWINI Group of Hospitals served as a testament to the transformative power of passion and dedication, illustrating how one can achieve success across diverse sectors.

### IIC Regional Meet

Silicon Institute of Technology, Bhubaneswar, collaborated with the Ministry of Education's Innovation Cell and the All-India Council for Technical Education (AICTE) to host the Institution's Innovation Council (IIC) Regional Meet on 18<sup>th</sup> December 2023. The event is part of a nationwide initiative, with the Ministry of Education's Innovation Cell and AICTE planning regional meets in 20 different cities across the country. The inauguration ceremony was graced by Dr. Raghav Prasad Dash,



AICTE Advisor-1, Mr. Dipan Sahu, Assistant Innovation Director, Ministry of Education's Innovation Cell, and Prof. (Dr.) Omkar Nath Mohanty, Director of Technology & Academic Initiative at RSB MetalTech, Pune & Former Vice-Chancellor, BPUT.

### **National Start-Up Day**

Silicon celebrated the National Startup Day on 16<sup>th</sup> January 2024. This day marks the inception of the Startup India initiative. It aims to recognize the achievements of Indian startups and promote entrepreneurship among youth. Dr. Sanjay Pattnaik, Co-Founder & CEO of PeopleBetter and former Vice-President of Corporate Strategies and Human Resources at Vedanta, Odisha delivered the expert talk. The expert talk was followed by a quiz. A total of 120 students and faculty members enthusiastically attended the event.

### **Expert talk on "Process of Innovation Development, Technology Readiness Level (TRL), Commercialization of Lab Technologies and Tech-Transfer"**

The IIC and ED cell of Silicon organized an expert talk on "Process of Innovation Development, Technology Readiness Level (TRL), Commercialization of Lab Technologies and Tech-Transfer" on 6<sup>th</sup> February 2024. The talk was delivered by Dr. Amaresh Panda, Intellectual Property & Technology Transfer professional working as the Head of the Regional Technological Transfer Office (RTTO) at KIIT-TBI, the Technology Business Incubator of KIIT University. A total of 70 students participated in the session.



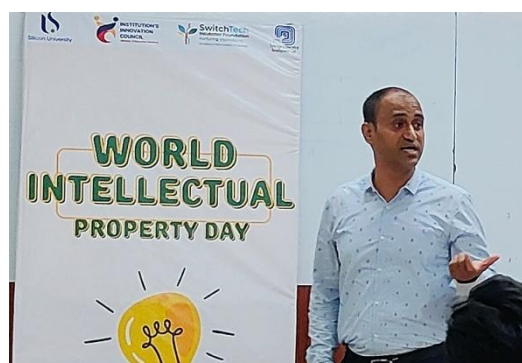
### **World Creativity and Innovation Day**

The IIC and ED Cell celebrated World Creativity and Innovation Day on 21<sup>st</sup> April 2024. Mr. Deepak Choudhury, a powerful coach and passionate speaker addressed the participants on this occasion. Mr. Choudhury motivated the participants to ignite their creativity and innovative spirit by citing several practical examples from across the world. Participants learned to turn innovative ideas into successful ventures through interactive discussions, where they presented their unique start-up ideas. Furthermore, Mr. Choudhury shared his insights on creating effective business models, strategic planning, and conducting market research to ensure success. He also addressed their questions and helped them select the best available options for their ventures. The session was attended by 50 students and faculty members.



### **World Intellectual Property Day**

The IIC and ED Cell celebrated World Intellectual Property Day on 26<sup>th</sup> April 2024, with Dr. Amaresh Panda, Head of the Technology Transfer Office at KIIT-TBI, sharing his expertise in Intellectual Property and Technology Transfer. Seventy students, faculty, and industry professionals engaged in discussions on market research, business planning, financial planning, and intellectual property protection, enhancing their understanding and interest in intellectual property rights.





### **Mentor-Mentee Program**

The IIC organized a two-day Exposure Visit cum Training Program for mentee institutes from 10<sup>th</sup> -12<sup>th</sup> May 2024. Mr. C.R. Patnaik's presentation on "Why Entrepreneurship" covered entrepreneurial competencies and the appeal of becoming an entrepreneur. Mr. Visal JC's session on "Design Thinking" explored funding opportunities for pre-incubation and incubation facilities. In the afternoon, Mr. Patnaik led a session on "Achievement Motivation Training (AMT)". The day ended with a guided tour of pre-incubation centers, including the ED Cell and Incubation Centre. The second day began with another AMT session by Mr. Patnaik. Mr. Deepak Chaudhury discussed identifying viable business opportunities, followed by in-depth discussions on the Business Model Canvas. Dr. Amresh Panda offered insights into technology commercialization and intellectual property (IP).



### **Innovation Challenge**

The IIC and ED Cell hosted the Innovation Challenge from 10<sup>th</sup> - 12<sup>th</sup> May 2024. The 'Yukti Innovation Challenge' featured student teams presenting creative solutions to societal issues. Participants competed for access to the Yukti Portal, cash prizes, and incubation opportunities. The 'Prototype Exhibition' on 10<sup>th</sup> May showcased 145 participants, with 90 hardware and 55 software projects highlighting students' technical skills. The 'Build-A-Thon' held on 11<sup>th</sup> -12<sup>th</sup> May was a 12-hour innovation marathon, focusing on developing Minimum Viable Products (MVPs) addressing real-world problems and enhancing entrepreneurial skills through workshops and activities.



### **Official Events/Activities**

#### **77<sup>th</sup> Independence Day**

Silicon celebrated the 77<sup>th</sup> Independence Day on 15<sup>th</sup> August 2023 to commemorate India's freedom struggle and foster a sense of unity and patriotism. The celebration began with the hoisting of the national flag by Dr. Jaideep Talukdar, and the singing of the national anthem by the audience. Silicon Quiz Club conducted "INDIA QUIZ", its first online quiz session on this occasion, to unveil the understanding of the beauty of our nation.

#### **Induction of 2023 B.Tech. Admission Batch**

Silicon conducted a virtual orientation program on 26<sup>th</sup> August 2023, and an offline induction program from 7<sup>th</sup> -9<sup>th</sup> September 2023 for the 6<sup>th</sup> B.Tech. batch under autonomy (2023-2027). Expert speakers including Dr. Ashok Kumar Sahu, Managing Director of Centre for Human Development and Neuro Linguistic Research (CHDNLR) & Former Executive Director of NALCO, Mr. Abhijit Sen, CEO of Syllogistek and Dr. Suvendu Narayan

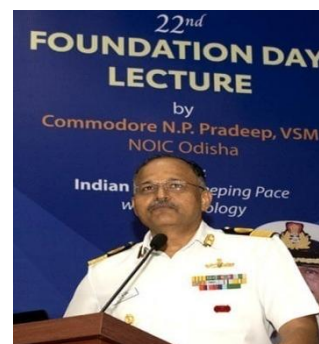




Mishra, Professor in Psychiatry, IMS and SUM Ultimate Hospital delivered talks in the induction program. A few of our alumni also interacted with the students in the hybrid mode and answered their queries related to the institute.

### 22<sup>nd</sup> Foundation Day

Silicon observed its 22<sup>nd</sup> Foundation Day on 10<sup>th</sup> September 2023 to commemorate the institute's establishment, celebrate the milestones achieved, and reflect on future goals. Commodore NP Pradeep, the Commanding Officer of INS Chilika and Naval Officer-in-Charge (NOIC) of Odisha, and Mrs. Bindu Pradeep, President NWWA Chilika graced the event with their esteemed presence. Commodore Pradeep delivered our Foundation Day Lecture on the topic "Indian Navy – Keeping Pace with Technology". He emphasized the opportunities for engineering graduates in the defense sector and encouraged participation in the Defence Innovation Challenge.



### Freshers' Welcome -2023

Silicon organized the Freshers' Welcome for the B.Tech. 2023 admission batch on 20<sup>th</sup> October 2023. The objective of this event was to introduce the new students to the institution, foster a sense of belongingness, and acquaint them with the campus culture. The 2<sup>nd</sup> year students welcomed the newly admitted students by conducting various fun events and competitions. The winners of different competitions were awarded prizes.



### 15<sup>th</sup> Alumni Meet

Silicon Alumni Association organized its 15<sup>th</sup> Alumni Meet at the institute premises on 30<sup>th</sup> December 2023. The event began with a welcome song followed by the lamp-lighting ceremony. The event also featured performances and fun activities arranged by our students. The alumni were also taken on a virtual campus tour to let them reminisce about their cherished memories. Furthermore, batch-wise group pictures were taken to capture the memories with the staff and students of Silicon. A total of 250 alumni attended the alumni meet.



### 75<sup>th</sup> Republic Day

Silicon celebrated the 75<sup>th</sup> Republic Day of India on 26<sup>th</sup> January 2024. The Silicon Green Club (SGC) organized a plantation drive to create awareness about the rising concerns of deforestation. The Republic Day celebrations began with Dr. Jaideep Talukdar unfurling the national flag and addressing the assembled audience with a short speech, remembering the founding fathers of our nation and the brave souls who gave their lives for the freedom we are enjoying today. The national anthem was sung and our students performed various cultural acts to add vibrance to the celebrations.



### Staff Award Function

The Staff Welfare Committee of Silicon organized the Annual Staff Award Function on 10<sup>th</sup> February 2024. The award function began with the celebrations of the University status conferred to Silicon by the Government of Odisha. Furthermore, 49 employees received the Long Service Award for continuous service and commitment to Silicon and 5 faculty members were felicitated for completing their Ph.D. in academic session 2023-24. Our faculty and staff members orchestrated for various cultural performances. The children of our staff members captivated the audience with a diverse array of performances that encompassed singing, dancing, and instrumental brilliance.



### B.Tech. Farewell 2024

The farewell of B.Tech. 2024 graduating batch was organized on 18<sup>th</sup> May 2024 in the North Lawn of the campus. The students fondly reminisced their time at Silicon, making everyone feel nostalgic. The Industry Interface Cell (II Cell) acknowledged the achievers of the 2024 for their extraordinary achievements.



### Celebration of Different Days

#### IEEE Day 2023

The IEEE Student Chapter celebrated IEEE Day on 6<sup>th</sup> October 2023 on the theme “Technical Innovation and Science of Brain”. The distinguished speaker of the event was Dr. Ranjan Kumar Behera, Associate Professor of Electrical Engineering at IIT Patna. Dr. Behera talked about the industrial approach to Electric Vehicle (EV) integration, discussing EV design and technology, Vehicle Dynamics, Battery systems, and more.



#### National Energy Conservation Day 2023

The Department of EEE collaborated with the IEEE Student Chapter, SIPC and the IIC to celebrate the National Energy Conservation Day on 14<sup>th</sup> December 2023 by organizing a poster competition and a technical talk. The winner of the competition was Biswaranjan Das. The first runner-up was Silva Simran and the second runnerup was Jiban Jyoti Pal. Mr. Bibhu Charan Swain, Senior Consultant, Power Tech Consultants delivered a talk on the “Implementation of Integrated Energy Efficiency and Demand Side Management Model in Educational Institute”.

#### International Women’s Day 2024

The Social Awareness and Gender Equality for Women (SAGE-W) cell at Silicon organized the International Women’s Day (IWD) celebration on 14<sup>th</sup> March 2024 on the campaign theme “Inspire Inclusion”. The guest speakers of IWD 2024 were Ms. Namrata Chadha and Dr. Padmini Panigrahi. Ms. Chadha is a lawyer, a social activist, and an ex-member of the State Commission of Women, Odisha. Dr. Panigrahi is the Founder of the





Koshala Group, an entrepreneur, and a TEDx speaker. Ms. Chadha discussed the significance of awareness campaigns for inspiring and encouraging women's growth at the grassroots level.

### World Earth Day 2024

The YFS Silicon Chapter collaborated with the Silicon Green Club (SGC) to organize "Aquaovation", an awareness program, on 20<sup>th</sup> and 22<sup>nd</sup> April 2024 to celebrate World Earth Day. "Aquaovation" featured an expert talk by Mr. Dharmananda Sundaray, Campaign Manager of Youth4Water Plus movement. Furthermore, the event comprised of two competitions— an extempore competition, 'Off the Cuff', and a painting competition, 'Splash the Colours'. Mr. Jitendra Kumar Nayak, Assistant Establishment Officer, was also felicitated in the event for exemplary water-saving efforts.



### IEEE PES Day 2024

The Department EEE at collaborated with the IEEE Students Chapter, the IEEE Bhubaneswar Subsection, and the PES Chapter, Bhubaneswar to celebrate the IEEE PES day on 24<sup>th</sup> April 2024. The event included a technical talk on "Transformation of Last-Mile Mobility in India" by Ms. Rupa Patanaik Pradhan, Circle Revenue Manager, TPCODL. The PES Day celebration also comprised of a poster-making competition on the topic "Transformation of Last-Mile Mobility in India". A total of twelve students participated in the competition.



### World DNA Day 2024

Silicon collaborated with inDNA Life Sciences Pvt Ltd to celebrate World DNA Day on 25<sup>th</sup> April 2024. The event raised awareness about genetics in disease diagnosis, treatment, and prevention. Professor Sridhar Sivasubbu from Vishwanath Cancer Care, Bangalore shared his journey in the field of genome sciences. Dr. Nibedita Jana, Chief Operating Officer (COO) at the Institute of Life Sciences (ILS), advocated exploring invention, creativity, and entrepreneurship in DNA discoveries. Dr. Ramray Bhat, Associate Professor at the Indian Institute of Science (IISc), Bangalore, discussed extracellular matrix interactions in cancer. Dr. Divya Sriram, an adjunct professor at the JBS Haldane Center highlighted entrepreneurial opportunities in DNA-based healthcare technologies.



### **National Technology Day 2024**

Silicon celebrated the National Technology Day on 11<sup>th</sup> May 2024. The event featured an expert talk by Dr. Chitta Ranjan Mishra, a distinguished chemical scientist and technologist, renowned columnist, television anchor, accomplished author, and captivating orator. A total of ninety five students attended the event to enhance their knowledge about recent technical advancements.



### **World Environment Day 2024**

The IIC at Silicon collaborated with the Silicon Green Club (SGC) to conduct a plantation drive within the college campus on 5<sup>th</sup> June 2024 to celebrate World Environment Day. This year's World Environment Day campaign focused on land restoration, desertification, and drought resilience under the slogan "Our land. Our future. We are #GenerationRestoration". The campaign theme emphasized that we must urgently protect our environment by prioritizing the restoration of land and combating desertification. The students and staff of Silicon came together to plant saplings on World Environment Day.



### **International Day of Yoga 2024**

The Silicon Students Council (SSC) organized a vibrant yoga session to celebrate the International Day of Yoga (IDY) on 21<sup>st</sup> June 2024. Mr. Prasant Kumar Mallik, our esteemed yoga teacher, skillfully demonstrated various yoga postures, which were simultaneously performed by the enthusiastic participants. Several asanas, including Pawanmuktasana, Katichakrasana, Tadasana, Bhujangasana, Utthanapadasana, and Surya Namaskar, were practiced. A total of twenty-five students, staff, and faculty members participated, embodying the spirit of the day.



## **Activities of the SAGE-W Cell**

### **Awareness Program for Menstrual Hygiene**

The SAGE-W team collaborated with the National Service Scheme (NSS) to organize a "Menstrual Hygiene Awareness Initiative" in Mahima Nagar Basti, Bhubaneswar on 22<sup>nd</sup> August 2023. Volunteers gathered women from the community in a communal hall and covered topics such as proper sanitary napkin usage, menstrual hygiene practices, waste management, addressing taboos, and seeking medical advice.



### **Health Awareness Program**

SiliconTech collaborated with Vatsalya Wellness from IIM Ahmedabad to organize an awareness program on "Sustainable Menstrual Health" on 13<sup>th</sup> September 2023. The program aimed to



promote eco-friendly menstruation practices and raise awareness about the environmental impact of traditional menstrual products. Mr. Paritosh Anand and Ms. Chitranshi Baranwal, Cofounders of Vatsalya Wellness & Genie Pads, shared valuable insights on sustainable menstrual health and showcased their innovative products. A total of 125 participants attended the awareness program.

### Talk on “Prevention of Sexual Harassment at Workplace”

The SAGE-W cell in collaboration with the ICC cell organized an Awareness Program on “Prevention of Sexual Harassment at Workplace” on 9<sup>th</sup> December 2023 to observe the Prevention of Sexual Harassment at Workplace week. The speaker for the event was Ms. Kanta Mohanty, Training Consultant and Career Transition Coach, Bhubaneswar. Ms. Mohanty made everyone aware of the need for regular training sessions on harassment and its consequences and ways to tackle them.



### Awareness program on “Health Issues and Understanding Hormones”

The SAGE-W cell at Silicon University organized an awareness program on “Health Issues and Understanding Hormones” on 26<sup>th</sup> February 2024. It was specially targeted for female students, considering the complexity of a woman’s hormone-regulated physical health and the need to acknowledge and treat it. The awareness session was conducted by Dr. Dilleswari Pradhan, Professor of Pathology at Saheed Rendo Majhi Medical College & Hospital (SRMCH) in Bhawanipatna, Odisha.

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

### Obscura 2023

SiliconTech in collaboration with Ketaki Foundation Trust, Bhubaneswar organized “Obscura 2023”, a presentation and discussion on photography to celebrate World Photography Day on 19<sup>th</sup> August 2023. Mr. Satyabhusan Hota, Trustee of Ketaki Foundation Trust delivered the welcome address. The keynote address was delivered by the Chief Guest of the event, Mr. Sanjay Acharya, a well-known photographer. Mr. Jugal Debata, an eminent photographer and filmmaker addressed the gathering about the techniques of mastering photography.



### Plantation Drive by Govt. of Odisha

SiliconTech students participated in a plantation drive organized by the Government of Odisha on 17<sup>th</sup> September 2023 to restore the forest cover in the Sikharchandi hills and promote environmental sustainability. A total of 170 students from SiliconTech along with Mr. Nitai Gaur Dhall, our Trustee, Mr. Chandrajit Swain, our Administrative Officer, Mr. Subrat Kumar Sahoo, Faculty Coordinator, Silicon Green Club, and Mr. Rabinarayan Mohanty, Faculty Coordinator, NSS (National Service Scheme) participated in this drive.



### Harry Potter Quiz 2023

Silicon Quiz Club in collaboration with the Silicon Photography Club organized the “Harry Potter Quiz 2023” on 1<sup>st</sup> November 2023. The event educated the participants about the popular series and celebrated the beloved Harry Potter fandom. More than fifty five teams participated in this quiz. The winners were Rajesh Panigrahi and Purnima Mishra from the CSE 2026 graduating batch. Tatsat Mohanty (CEN, 2024) and Amlita Panda (CEN, 2025) were the runners-up.



### Blood Donation Camp

The Red Ribbon Club (RRC) collaborated with Silicon Students Council (SSC) and the National Social Service (NSS) Club to organize a Blood Donation Camp on 4<sup>th</sup> November 2023. More than a hundred students and eleven staff members volunteered to donate blood for a noble cause. A total of 105 units of blood were collected by the Red Cross team, Unit-6, Capital Hospital.



### Plantation Drive

The YFS Silicon Chapter organized a plantation drive on 18<sup>th</sup> November 2023 in collaboration with the team of the movie “Ae Akasa Tale”. Odia Cine Star Miss Samarpita Dash, Notable Film Director Mr. Subhendu Biswal, and Stand-Up Comedian Extraordinaire Mr. Debarchan Mishra joined the drive and addressed the audience about the importance of conserving the environment. Approximately 100 students actively participated in the initiative to promote environmental sustainability.

### Quizanna 2023

Silicon Quiz Club organized the 2<sup>nd</sup> edition of ‘Quizanna’ on 18<sup>th</sup> November 2023. The senior secondary students from different schools in Bhubaneswar and Cuttack participated in this quiz. The winners were Sahil Jayasingh and Siddharth Kumar Jena and the first runners-up were Tripathy Divyajyoti Senapati and Jeet Raha (D.A.V. Public School, Unit 8, Bhubaneswar. Ayeush Mohapatra and Sakya Singha Patra from D.A.V. Public School, Chandrasekharpur, were the second runners-up.



### Sabda-Tattva 2023

The Meta Academics Cell at SiliconTech organized “Sabda-Tattva 2023”, the first inter-college literary fest from 24<sup>th</sup> - 25<sup>th</sup> November 2023. The fest aimed to foster the literary skills and creativity of students by organizing various competitions in writing, poetry, and debates. The event featured several competitions including Write-a-Tale, Poetic Arena, Leadership Challenge, Lok Sabha, and Parachute Drop. More than a hundred students from different institutes across the state participated in various competitions. All the winners were awarded prizes for their exemplary performance in the Literary Fest.





### **Sangam 2023**

The Cultural Society and Meta Academics Cell jointly organized “Sangam 2023” a music fest on 25<sup>th</sup> November 2023. Students from different higher secondary schools and colleges in the state participated in this fest. The music fest consisted of various competitions in different genres like dance, song, and instrumental. A total of 50 students participated in the fest.



### **IOGT- 2023**

The Indian Gate Ball Union (IGU) collaborated with SiliconTech to host the Indian Open Gate Ball Tournament (IOGT) 2023 from 26<sup>th</sup>- 27<sup>th</sup> November 2023. The tournament was inaugurated by the Chief Guest Mr. Satyabrata Sahu, IAS, Additional Chief Secretary, Government of Odisha. A total of twenty-four teams from different countries including Japan, Indonesia, Taiwan, and Thailand participated in this tournament.



### **Silicon Cup 2023**

SiliconTech organized “Silicon Cup 2023”, the 14<sup>th</sup> intercollege sports meet from 28<sup>th</sup> November- 1<sup>st</sup> December 2023 at SunDeck, the sports complex of the institute. External referees were invited to judge the different matches. All the matches were coordinated by Dr. Subhakanta Dash, Faculty in Charge of the Silicon Students Council, and Mr. Gyana Ranjan Biswal, Faculty Coordinator of the Silicon Sports Club.



### **Rhythmnova 2023**

The Cultural Society of Silicon (CSS) organized the Annual Cultural Fest “Rhythmnova 2023” on 2<sup>nd</sup> December 2023. There were around 20 performances that included a group dance, a duet song, a mono-act, and a skit. The highlight of the event was the special performances by the official dance crew and the college band, DemonDX and Samarpan respectively.



### **TEDxSITB-2023**

The II Cell organized the 3<sup>rd</sup> edition of TEDxSITB on 10<sup>th</sup> December 2023 based on the theme “Harmony in Equilibrium: Mastering the Art of Balance”. The event featured six captivative speakers who are experts in their respective fields. They were Ms. Shyama Jha, Social Entrepreneur and Founder of Millet Magic, Wow Mom Foods and Hastrang, Ms. Swati Arora, Head of Leadership Development at Tech Mahindra, Life Coach and Entrepreneur, Ms. Shrutiksha Nayak Nath, Entrepreneur & Chief Operating Officer (COO) of



<p>Threatsys Technologies and fbb Colors Miss India Finalist, Mr. Sarbajeet Mohanty, a Demonologist and Paranormal Investigator, Mr. Suraj Rikame, Actor and Theatre Artist and Ms. Anica Mann, Archaeologist, Writer, and Podcaster.</p>	
<p><b>Open Mic 2023</b></p> <p>The Meta Academics Cell organized the sixth edition of Open Mic on 29<sup>th</sup> December 2023. It featured performances on poetry, stand-up comedy, and storytelling. The best performances were selected based on the scores given by the judges and audience voting. In the judge's category, Girish Bharadwaj (CST, 2025) emerged as the winner and Subhojeet Biswas (ECE, 2026) was the runner-up. In the audience's choice category, Sunil Kumar Swain (MCA) was the winner and Swati Sonalika Panda (ECE, 2026) was the runner-up.</p>	
<p><b>INQUIZIA</b></p> <p>Silicon Quiz Club organized "INQUIZIA- The Quizzing Carnival", a two-day quiz fest on 5<sup>th</sup> and 6<sup>th</sup> January 2024. The event comprised of three quizzes- the India Quiz, the Aurabinda Misra Memorial Quiz, and the Game of Thrones Quiz. A total of 130 teams of school students, college students, and corporate enthusiasts participated in these three quizzes.</p>	
<p><b>15<sup>th</sup> Annual Athletic Meet</b></p> <p>Silicon organized the 15<sup>th</sup> Annual Athletic Meet on 6<sup>th</sup> January 2024 at SunDeck, the sports complex. All the track and field events were smoothly conducted under the supervision of Mr. Gyana Ranjan Biswal, Faculty Coordinator of the Sports Club, and Mr. Balram Mohanty, the Sports Officer. Three external judges evaluated the performances of the participants to select the winners.</p>	
<p><b>ZYGON 2024</b></p> <p>Silicon organized Zygon, the annual cultural fest from 23<sup>rd</sup>- 24<sup>th</sup> February 2024. This year, Zygon was themed on the magical world of Harry Potter, a famous fantasy series authored by J.K. Rowling. 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 new addition to this year's cultural fest was the 'Odyssey Cup' for honouring the best-performing B.Tech. batch. The students of second year B.Tech. emerged as the winners of 'Odyssey Cup' with the highest score.</p>	



### **SPENT Quiz**

The Quiz Club of Silicon University conducted 'Spent Quiz 2024' on 14<sup>th</sup> March 2024. The quiz was based on sports and entertainment. The three best-performing teams emerged as the winners and runners-up. Swaraj Mohapatra and Biswanath Patnaik from the CST 2026 batch were the winners. The first runners-up were Anshuman Rath and Adyasis Maharana from the ECE 2025 batch. Dibyesh Mohanty (EEE, 2027) and Samyak Ranjan Panda (CSE, 2027) were the second runners-up. The quiz was conducted by Quiz Master Kashyap Panda and coordinated by Mr. Dhananjay Tripathy.



### **Cultural Nite 2024**

The Campus Coordination Committee (CCC) of Silicon University organized a cultural nite on 16<sup>th</sup> March, 2024. The event was centered on the theme of "Indian Culture". The objective of the event was to create an environment of splendor and imagination while exhibiting the unique Indian culture through its various art forms. There were musical sessions, dance visuals, and an elegant promenade that was quite captivating.



### **SITMUN 2024**

Silicon organized the 6<sup>th</sup> edition of the Silicon Model United Nations (SITMUN 2024) from 28<sup>th</sup>- 30<sup>th</sup> March 2024. The conference had three committees– United Nations General Assembly Disarmament and International Security Committee (UNGA DISEC), United Nations Human Rights Council (UNHRC), Sustainable Development Goals (SDG) and one international press. The objective of SITMUN is to assist students in developing a deeper comprehension of current affairs, diplomacy, international relations, and other UN agendas. A total of 320 delegates from different universities and colleges across India attended the conference.



### **Sports Award Ceremony**

Silicon Sports Club celebrated the sports champions on 18<sup>th</sup> April 2024. The Sports Award Ceremony honoured the remarkable achievements and dedication of our student athletes. New initiatives were also launched to enhance our sports clubs.



### **Inauguration of Gateball Club**

Silicon inaugurated the Gateball Club on 20<sup>th</sup> April 2024. The club welcomes both seasoned players and novices alike. After the inauguration, a friendly match between IGU and Silicon University was held, showcasing the excitement of this newly launched endeavour.



## **Field Visits/Industrial Visits Organized**

### **Industrial Visit to NALCO Training & Research Centre**

The II Cell at Silicon organized an industrial visit to NALCO Research & Technology Centre (NRTC) on 29<sup>th</sup> August 2023. National Aluminium Company Limited (NALCO), one of the largest integrated Bauxite-Alumina-Aluminium- Power Complex in the country, has established the state-of-the-art NRTC in Gothapatana, Bhubaneswar, equipped with cutting-edge testing facilities. This visit provided practical industry insights, fostered an understanding of industrial research, and technology trends, and explored potential collaboration opportunities. During the visit, experts from NRTC showcased high-tech instruments for various testing and R&D purposes, benefiting 12 faculty members who had the opportunity to enrich their knowledge.



### **Industrial Visit to HINDALCO, Hirakud**

The II Cell at Silicon organized an industrial visit to HINDALCO (Hindustan Aluminium Corporation Limited), Hirakud from 13<sup>th</sup> – 14<sup>th</sup> September 2023. HINDALCO, a flagship company of the Aditya Birla Group, is a leader in aluminium and copper. The visit aimed to offer practical insights into the industry, provide a comprehensive understanding of plant operations, highlight potential research, and explore the scope for possible collaborations. Six faculty members and two students visited the plant.



### **Field Visit to TPCODL**

The Department of Electrical and Electronics Engineering (EEE) organized a field visit to Tata Power Central Odisha Distribution Limited (TPCODL), Bhubaneswar for the 7<sup>th</sup> semester EEE students on 18<sup>th</sup> November 2023. This field visit was organized under the “train to hire” initiative of Tata Power. During this field visit, our students visited the SCADA (Supervisory Control and Data Acquisition) Centre, meter testing lab, Skill Development Centre, electric substation, and automated substation in two groups.



They availed firsthand knowledge about power systems equipment, protection, and functioning of the substation.

### **Industrial Visit to Vedanta FACOR**

Silicon organized an industrial visit to Vedanta Ferro Alloys Corporation Limited (FACOR) located at Bhadrak, Odisha on 26<sup>th</sup> April 2024. The objective of the visit was to gain valuable insights into the latest technological advancements and operational excellence at one of India's leading manufacturers of high-carbon ferrochrome alloys. The visit also aimed to explore avenues for collaboration in solving technical bottlenecks. The experts from Vedanta-FACOR provided an overview of the plant's procedures and sustainability programs. Our team visited the furnace and Captive Power Plant (CPP) areas and discussed technical advancements with the experts.



### **Industrial Visit to HINDALCO**

Silicon has made a significant stride in fostering collaboration with Hindustan Aluminium Corporation Limited (HINDALCO) through an enriching engagement with the HINDALCO Hirakud Plant. During a visit on 20<sup>th</sup> – 21<sup>st</sup> May 2024, Silicon's collaboration with HINDALCO focused on three key areas: Electrical Power System, Rodding Plant, and Compressed Air System. Within these domains, 33 problem statements were identified, and 14 were selected for further exploration.



### **Silicon Establishes the "JBS Haldane Centre for Molecular Medicine"**

Silicon in collaboration with inDNA Life Sciences Pvt. Ltd. established the JBS Haldane Centre for Molecular Medicine (HCM) on 1<sup>st</sup> January 2024 on its premises. Dr. Madhabananda Kar, Executive Director & Chief Executive Officer (CEO) at All India Institute of Medical Sciences (AIIMS), Darbhanga, inaugurated the HCM. The Centre for Molecular Medicine will train Life Sciences graduate students in the field of Molecular Medicine and provide knowledge on core aspects of biochemical genetics, microbial genetics, epigenetics, molecular oncology, genetic counseling, molecular immunology, infection biology, bio-computing, advanced bioinformatics, tissue engineering, and stem cell biology.





## MoUs Signed 2023-24:

Sl.No	MOU Date	MOU with Organization	
1	14 <sup>th</sup> July 2023	Tata Power	
2	8 <sup>th</sup> August 2023	Teleglobal International	
3	12 <sup>th</sup> September 2023	PHYTEC Embedded Pvt. Ltd	
4	4 <sup>th</sup> October 2023	Health & Family Welfare Department, Government of Odisha	