

# SiliconTech

SILICON INSTITUTE OF TECHNOLOGY, BHUBANESWAR

**A QUARTERLY NEWSLETTER**

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## EDITORIAL

### Greetings from SiliconTech!

The gloomy and uncertain situation lingering on due to the pandemic for the past two years now appears to be over, and the sky is finally clearing. At Silicon, we shifted all our activities completely to the offline mode. Undeniably, we faced challenges to overcome the inertia of online activities among the students after a long gap. Adequate and thoughtful planning was required to improvise the academic activities. The even semester classes including the Ph.D. coursework of the newly admitted scholars has started.



We commemorated Utkal Diwas under the Ek Bharat Shrestha Bharat (EBSB) program. A number of technical, social, sports and alumni activities were organized with both external and internal participation. Students organized the annual technical fest NOESIS and the annual cultural fest ZYGON. Our Robotics Club and Silicon Circuit Club organised a number of technical competitions under "NIRMAN". After the resounding success for the 2022 batch, Practice School program for the 2023 batch was launched by the Industry Interface Cell. By providing adequate patronage, we promoted research and innovation activities in the campus. In the meantime, NBA accreditation for the UG programs of CSE, EEE & ECE was extended for another three years.

With heavy heart Silicon family bade farewell to the 2022 batch of B.Tech., M.Tech., M.Sc. Data Science and MCA students. Adding more feathers to its cap, SiliconTech received the C V Raman award for academic excellence 2021 and two Siliconites received the titles of Bigyan Jyoti 2021 and Student of the Year 2021. Also, the students in the last two batches under BPUT won five gold medals in academics.

With the promise to achieve excellence in academics, research and innovation beyond the target, each member of SiliconTech will continue to work hard with sincerity and dedication.

**Prof. (Dr.) Jayashree Das**  
**DEAN, RESEARCH**

## INSTITUTE HIGHLIGHTS



### Startup Odisha recognizes SiliconTech as an “Incubator”

‘Switchtech Incubator Foundation’, an initiative by Silicon Institute of Technology, Bhubaneswar, incorporated as a Section 8 Company (Under the Companies Act 2013), has been recognized as an “Incubator” under the Odisha Start-up Policy-2016. This recognition was announced on 19 April 2022. Presently, the incubator is entitled to receive support from Start-up Odisha to build the start-up ecosystem.



### SiliconTech branch toppers awarded five University gold medals

SiliconTech branch toppers from the last two B.Tech. batches under BPUT viz., the graduating class of 2020 and 2021 have been awarded five gold medals for being the University (BPUT) branch toppers. The branch toppers from Computer Science & Engineering (CSE), Electrical and Electronics Engineering (EEE) and Electrical and Instrumentation Engineering (EIE) have been declared as BPUT (Biju Patnaik University of Technology) branch toppers for the academic session 2017-2021. In addition, the CSE branch topper has also been declared as the winner of ‘Arjun Bhuyan Best Graduate Award’ for being the University Topper across all branches for the academic session 2017-2021. The branch topper from Electronics & Communication Engineering (ECE) has been declared as the BPUT branch topper for the academic session 2016-2020.



### SiliconTech receives CV Raman Award for Academic Excellence 2021

Silicon Institute of Technology, Bhubaneswar (SiliconTech) was awarded the CV Raman Award for Academic Excellence 2021 in the first CV Raman Award Ceremony 2022 (an initiative by CV Raman Foundation), held at National Institute of Science Education and Research (NISER), Bhubaneswar on 10 June 2022. The titles of ‘Bigyan Jyoti 2021’ and ‘Student of the Year 2021’ were conferred on two of our students, Subhrajyoti Biswal (B.Tech. CSE, 2024) and Bibhudutta Sahoo (B.Tech. EEE, 2024) respectively.

## NEWS AND EVENTS



### National Seminar on Renewable Energy Technology

The Department of Electrical and Electronics Engineering (EEE) collaborated with Indian Energy Congress (IEC) to conduct a National Seminar on 'Renewable Energy Technology: Perspectives and Future Challenges for a Green World' on 14 May 2022. Shri. Bishnupada Sethi, IAS, Chairman, OHPC, was the Chief Guest. Sri. Anupam Saha, IAS, State Project Director, OPEPA and Sri. Bhaskar Sarkar, CEO, TPNODL were the Guests of Honour.



### Bootcamp on Basics of Web Development

The D2C (Dare2Compete) Igniters Student Chapter organized a beginner's bootcamp on Basics of Web Development from 31 March to 3 April 2022. The bootcamp covered various interesting areas like basics of HTML, CSS, JavaScript, Bootstrap and the initial stages of developing a website. It was followed by a mini hackathon.



### NIRMAN 2022

The SiliconTech Robotics Club and Circuit Club organized NIRMAN, under the patronage of Student Innovation and Promotion Cell (SIPC), from 28 – 30 April 2022. NIRMAN is a technological festival having the motto 'Rise with Technology'. It comprised of various events like Line Follower, Robo Race, Idea Presentation and Hacknation. Passionate minds across the nation got a chance to ideate, innovate and win prizes.



### CodeClash 3.0

The ISTE and CodeChef Students' Chapters at SiliconTech jointly conducted CodeClash 3.0 on 16 and 17 April 2022. This coding competition was conducted on the CodeChef platform. Around 272 students participated in this event. Ashish Kumar Singh (CSE, 1st year) and Kumar Jijnasu (CSE, 2nd year) emerged as the winners while Bhibu Prasad Sahoo (CEN, 1st year) and Abinash Samal (CSE, 2nd year) became the runners- up.





## ZYGON 2022

SiliconTech organized Zygon, the annual cultural fest of the Institute on 30 April and 1 May 2022. Our Principal, Dr. Jaideep Talukdar, Director, Dr. Saroj Kanta Misra, Dean (Academics), Dr. Debabrata Kar and Dean (Research), Dr. Jayashree Das came together to light the lamp and address the audience. The event commenced with the felicitation of the winners of Noesis-2022, the annual technical fest. Students showcased their skills and creativity through singing, dancing and walking the ramp.



## NOESIS 2022

SiliconTech organized Noesis, its annual technical fest on 24 April 2022. The motto of Noesis was to promote technology, scientific thinking, and innovations. The fest comprised of many events like Robo Soccer, Valorant, BGMI, GenBiz, Tronics, Cine Carnival, Open Sword, Treasure Hunt, Hour of Code, CSS Battle, Mr. and Miss Marvel, Guardians of the Galaxy (Roadies), Bell the Cat, Get the Gate, Poetry Writing and Recitation, Icliq and Nukkad. A huge model of Ironman designed by the students garnered the attention of all.



## Strike the Placements with Striver

The Silicon Wing of Technical Coding Hub (SWITCH) Club, under the patronage of the Student Innovation & Promotion Cell (SIPC), organized an expert talk session 'Strike the Placements with Striver' by Mr. Raj Vikramaditya on 8 June 2022. His talk focused on hiring processes and preparation strategies for the FAANG companies (Facebook, Amazon, Apple, Netflix, and Google). The session was co-ordinated by Dr. Soumya Priyadarsini Panda, FIC, SWITCH Club and attended by over 350 Siliconites.



## Invited Talk on 'Stress-Free Teaching'

The Staff Welfare Committee of SiliconTech organized an invited talk on 'Stress-Free Teaching' on 4 May 2022. The session was addressed by two eminent guests, Mr. Rashmin Pulekar, a Senior International Art of Living faculty member, TedX speaker, and international chess player (FIDE-rated) and Dr. Ruchi Dahiya, a Lieutenant Commander and renowned ENT surgeon. Dr. Dahiya expounded how chronic stress can lead to various life-threatening diseases like diabetes and hypertension. To manage and control stress, she advised the audience to practice Sudarshan Kriya. The talks were followed by a brief meditation session.



## World Environment Day 2022

Silicon Green Club (SGC) along with our Institution Innovation Council (IIC) conducted a plantation drive within the college campus, to celebrate World Environment Day on 5 June 2022. The theme for World Environment Day 2022 was "Only One Earth". Students and staff of SiliconTech came together to plant saplings and make this drive a success.



## Aama Odisha

SiliconTech's Music Club organized 'Aama Odisha', an event to commemorate Utkal Diwas, on 2 April 2022, under the Ek Bharat Shrestha Bharat (EBSB) program, an MHRD initiative of the Government of India. The event featured renditions of Odissi dances, Sambalpuri dances, Odia songs and a band performance. It began with the Director's address followed by the playing of the State Anthem. It was hosted in Odia to pay homage to the Odia language.



## International Day of Yoga 2022

SiliconTech celebrated International Day of Yoga (IDY) on 21 June 2022 by organizing a yoga-cum-meditation session in the Yoga Hall of the institute. The yoga postures were demonstrated by our yoga teacher, Mr. Prasanta Kumar Mallik and our faculty member, Mr. Tarini Charana Mishra and simultaneously performed by the participants. It was followed by meditation and Savasana. Our Principal Dr. Jaideep Talukdar and Director Dr. Saroj Kanta Misra attended the session along with our faculty members, staff and students. The theme of IDY 2022 was 'Yoga for Humanity'.



## Blood Donation Camp

The Ribbon Club (RRC) and the Youth Red Cross (YRC) Club of SiliconTech along with the Red Cross team of Capital Hospital organized a blood donation camp in the campus on 6 April 2022. The camp was inaugurated by our Director, Dr. Saroj Kanta Misra, along with the team of doctors. About 250 students and staff members participated to donate 205 units of blood. The volunteers who donated blood received certificates along with identity cards from Red Cross Blood Bank.





## Uncover Your Thoughts

SiliconTech's YFS (Youth for Sustainability) Silicon Chapter and Silicon Green Club organized 'Uncover Your Thoughts' on 14 May 2022. Mr. Punyasloka Panda, the National Co-ordinator of YFS India, motivated the students to adopt sustainable development strategies.



## Dwarfs Cup 3.0

SiliconTech organized 'Dwarfs Cup 3.0', a short pitch cricket tournament on 8 April 2022. The Winner and Runners-up trophy were won by teams BLOSSOMS and VALKYRIES in Women's category and teams CRID 7 and DATORS in the Men's category.



## How to become a 'YouTuber'

Social media cell organized a talk session on 'How to become a YouTuber' by Akash Dash, Chairperson, ISTE (Indian Society for Technical Education, Silicon Student Chapter) on 21 May 2022.



## Runners-up trophy in 'VIRAJ'

SiliconTech's Volleyball Team won the runners-up trophy in Viraj, the annual sports festival of the National Law University, Cuttack on 24 April 2022.

## Farewell for the graduating batch of 2022

SiliconTech bade a fond farewell to the graduating batch of B.Tech., M.Tech., MCA and M.Sc. Data Science of 2022 in the first week of June. Our Director, Dr. Saroj Kanta Misra, and our Principal, Dr. Jaideep Talukdar extended the farewell address and conveyed best wishes to the students for their future endeavours.



For further details on any news item, visit <https://silicon.ac.in/bbsr-home/news/>

## EMPLOYEES IN NEWS



**Dr. Manoranjan Behera**, Additional Professor, Department of Basic Sciences and Humanities (BSH) spoke about 'Green Synthesis and Characterization of Nanoparticles' in the National Webinar on Application of Advanced Sciences in Modern Technology and Industrial Engineering held at COEB (College of Engineering, Bhubaneswar) on 13 May 2022.

**Dr. Saswati Jena**, Assistant Professor, Department of Basic Sciences and Humanities (BSH) served as a resource person in the event 'Evaluation of the assignments of trainee counsellors of the DCGC programme of NCERT, New Delhi', held at Regional Institute of Education (RIE), Bhubaneswar on 6 June 2022.



## RESEARCH & PUBLICATIONS

**Scopus/SCI Indexed journals: 11**

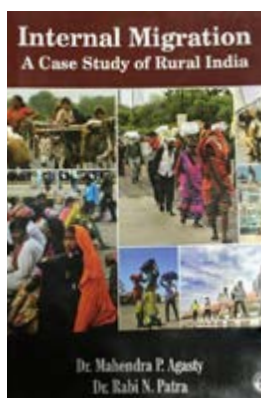
**Conference Proceedings: 12**

**Books: 1**

**Patents Published: 3**

### Book Details

A book titled 'Internal Migration: A case study of Rural India' by Dr. Mahendra P. Agasty, Additional Professor, Department of Basic Sciences and Humanities (BSH) was published in June 2022, by Abhijit Publications. This publication is the upshot of collaborative comprehensive research on economically-motivated and employment-linked internal migration with focus on migration, urban-rural linkages, children education, women empowerment, economics of migrant remittances and economic growth. The study is based on a micro level primary survey of 200 households in the Kendrapara district of Odisha, India.



### Onboarding of high-precision smart fuel sensor in Diesel Generator

The SiliconTech IoT research team in collaboration with Datoms conducted a case study on Industrial IoT that has been successfully tested. Three Distributed Generation (DG) units were connected to the IoT cloud of Datoms and various parameters like Engine Speed, Coolant Temperature, Voltage/ Current Generated, Frequency, Power Factor, Fuel Level and Motherboard status were monitored for analysis. Fuel consumption is a very crucial parameter to analyse the DG fuel efficiency. A state-of-the-art ESCORT fuel sensor (Operating Temperature: -45 °C to 50 °C with UNECE Standard and multi-point calibration with 95% accuracy) was installed as a test case to determine the DG ON-OFF status without the intervention of the main controller. This new sensor device has an in-built electrical shock protection mechanism (class III) and a 32-channel GPS receiver for precise localization applications. Its onboard Bluetooth connectivity enabled the new sensor device to connect to DATOM's TraDe Gateway unit (revised) directly for real-time analysis of DG fuel efficiency. This was not possible with the earlier 'SAPCON Instruments' fuel transmitter with MODBUS connectivity.

# STUDENT ACHIEVERS



## Subham Rath

@Highest package of 33 LPA

Subham Rath (ECE, 2022) got placed in Texas Instruments with 33 LPA. Subham had also received an internship-cum-PPO offer from Micron Technologies and an offer from OpenFive (erstwhile Open-Silicon), a SiFive company.

## University (BPUT) Gold Medalists



**Swikruti Mohapatra**  
(CSE, 2021) \*



**Satabdi Panda**  
(EIE, 2021)



**Abhishek Lohia**  
(EEE, 2021)



**Rucha Pattnaik**  
(ECE, 2020)

\*Swikruti Mohapatra (CSE, 2021) has also been declared as the winner of 'Arjun Bhuyan Best Graduate Award' for being the University Topper across all branches for the academic session 2017-2021.

## CV Raman Awards 2022 (an initiative by CV Raman Foundation)



**Subhrajyoti Biswal**  
(CSE, 2024) received  
the title of 'Bigyan  
Jyoti 2021'



**Bibhudutta Sahoo**  
(EEE, 2024) received  
the title of 'Student  
of the Year 2021'

## Selected for Practice School (PS) Program in Haber Technology with 25K stipend per month



**Debasish Mahapatra**  
CSE, 2023



**Sunil Kumar Panda**  
CSE, 2023



**Subham Gantayat**  
CSE, 2023

## Selected for Practice School (PS) Program in STMicroelectronics with 21K stipend per month



**Sristi Rani**  
ECE, 2023



**Punyatoya Mohanty**  
ECE, 2023

# INDUSTRY INTERFACE CELL

## PLACEMENT HIGHLIGHTS

Placement snapshot for eligible  
students, as of 30 June 2022

### B.Tech .

96% Students placed  
65 Companies participated  
1080 Job offers  
7:1 Students per company

2.5 Job offers per student  
221 Internship offers  
5.1 LPA Average package  
33 LPA Highest package

### MCA

91% Students placed  
35 Companies participated  
135 Job offers  
7.5 LPA Highest package

### M.Sc. (Data Science)

94% Students placed  
20 Companies participated  
18 Job offers  
6 LPA Highest package



## Practice School (PS) Highlights

### 2022 Graduating Batch

- The PS program of SiliconTech successfully completes of one year. The 8th semester Practice School (PS) students from B.Tech. 2022 batch successfully completed their PS program on 3 June 2022.
- A total of a hundred students had opted for PS in their 8th semester from January to June 2022. During the 7th semester 28 students from B.Tech 2022 batch had completed their PS program on 8 Jan 2022.

### 2023 Graduating Batch

- Industry Interface Cell (II Cell) launched the Practice School (PS) program for the B.Tech. graduating batch 2023 on 6 May 2022.
- Till date 18 students for the 8th semester and 23 students for the 7th semester across all branches have been selected to pursue their PS program in the domains of software/product/VLSI/research in the following organizations.

SPIKEWELL

ST Micron

Kfintech

Teceads Solutions Pvt. Ltd

HABER Technology

Micron

Pipli Software

DRDO

Teleglobal Solutions

Small case Technologies

Squibix

AI-CoE OUAT

- The students selected under 7th semester PS program have already joined their respective PS stations.
- The selected students will be receiving a monthly stipend between 10K and 30K during their PS program

## Summer Internship 2022

SiliconTech launched its 2022 Summer Internship program for the B.Tech. graduating batches of 2023 and 2024 on 27 June. A total of 15 courses were offered across various domains like Programming, VLSI, Data Science, Cyber Security, IOT, AWS Machine Learning, Data structures and algorithms, SEO and Digital Marketing. These programs have been designed as per the current market trend and are mostly conducted by industrial experts in collaboration with SiliconTech faculty. More than 900 students are undergoing these programs.



## ENTREPRENEURSHIP DEVELOPMENT CELL

*The ED Cell has organized several interesting events in the April-June quarter. The following is a glimpse of all the events held by the ED Cell along with the Institution Innovation Council (IIC).*



### Entrepreneur's Fest 2022

The 'Entrepreneurs Fest 2022' was held on 28 and 29 May 2022, to bring the innovative entrepreneurial minds under one roof for the enhancement of their skills. Mr. Debashis Pattnaik, President, The Indus Entrepreneurs (TiE), Bhubaneswar Chapter was the chief guest and Mr. Abanis Nayak, Managing Director, Ztop IoT Solutions Pvt. Ltd. was the main speaker of the event.



### Field visit to Odisha Startup Hub (O-Hub) for students

Students were taken on a field trip to the Odisha Start-up Hub (O-Hub) to give them an exposure to the state-of-the-art infrastructure that facilitates start-up incubation, on 20 May 2022.



### Workshop on 'Prototype Design and Development'

A workshop on 'Prototype Design and Development' was organized on 13 and 14 May 2022, to provide a brief idea of prototype and prototyping and explain its importance in industry and various other sectors. This workshop was conducted by Mr. N. Krishna Sri Sai, CTO, Bloomenara.

### Webinar on 'Intellectual Property Rights and IP Management for Start-Up'

A webinar on 'Intellectual Property Rights (IPR) and IP Management for Start-Up' was held under the mentor-mentee program – an initiative by the Ministry of Education (MoE), Govt. of India, on 12 May 2022. It was conducted by Dr. T. Pavan Kumar, Senior Scientist, Institute of Minerals and Materials Technology (IMMT), Bhubaneswar.



### Mentor- Mentee Training Program under the aegis of MoE, Govt. of India

An exposure cum training program was held with the support of MoE, Govt. of India, for 5 mentee institutions on 19 and 20 April 2022. It comprised training sessions on Intellectual Property Rights, Entrepreneurial Motivation and Incubation Management. More than 100 students from all the mentee institutes including Bengal Institute of Technology, West Bengal, Royal Global University, Assam, Model Mahila College, Jharkhand, Gandhi Institute for Engineering and Technology, Bhubaneswar and Dr. Ambedkar Memorial Institute of Information Technology & Management Science (DAMITS), Rourkela participated in the deliberations.

### IDEATHON 2022

The first round of IDEATHON 2022 was held on 3 and 10 April 2022. It is a short, intensive, brainstorming event in which students generate fresh ideas and solutions to existing challenges in the community. 20 teams (idea hackers) participated in this first round of idea generation competition.



For further details on any news item, visit  
<https://silicon.ac.in/bbsr-home/news/>

# ALUMNI BUZZ



**Dr. Manas Kumar Jena** (EEE, 2011), Assistant Professor, IIT Palakkad visited the Department of EEE on 23 June 2022. He discussed about the evolution of syllabus framework, available learning opportunities, details of the advanced laboratory set-up and new internship programs offered to B. Tech. and M. Tech. students.

*Silicon Alumni Association hosted a series of talks where our alumni shared their experiences with Siliconites*



**Gyanaranjan Khuntia** (ECE, 2006), Mentor Graphics spoke on career opportunities within digital and analog VLSI companies and the opportunities that are available in the digital sector, particularly at Mentor Graphics, on 6 June 2022.



**Sumit Sah** (ECE, 2021), HTC Global Services addressed a seminar on 'How to make yourself Industry Ready & Industries Best Practices' on 09 April 2022 to increase students' awareness about industry preparedness and inform them about the best practices followed in the industry.



**Imtiaz Zafar** (EIE, 2011), Deloitte London shared his journey as an engineer through a virtual talk on 15 May 2022.



**Suraj Sharma** (EIE, 2007), IOCL spoke about how the institute has evolved in the areas of 3 Ls- Library, Lecturer and Laboratory in his virtual talk on 11 April 2022.



**Kasturi Priya** (ECE, 2021) and **Nikhil Raj** (CSE, 2020) joined IIM Calcutta and FMS Delhi respectively, to pursue their MBA.



# ALUMNI IN FOCUS



## SURAJIT DAS CHOWDHURY

Head of Partnerships at Muvi LLC  
B. Tech. (EEE) 2006-2010

Surajit heads partnerships at Muvi LLC - a SaaS product which helps to launch OTT platforms. Strategic alliances, negotiations, identifying relevant software products for integration and channel sales are his forte. Prior to this, he was heading sales at Propellid, one of India's leading Fintech lending startups. He began his professional career with Infosys where he worked as a Test Analyst and dealt with clients like APPLE and AETNA. In future, he aims to change the education system by introducing AI to augment skill training and recruitment thereby benefitting students, institutes, educators and recruiters.



## SUBHRANSU BEHERA

Principal Software Engineer, SP Group  
B.Tech. (IT) 2001-2005

Subhransu works as a Principal Software Engineer in the digital team of SP Group, a government-affiliated electricity and gas distribution company in Singapore. He helped to set up the mobile team and built the SP Utilities application in the country. He has also worked with PayPal, SAP and Red Hat and has founded the iOS Conf SG that is recognised as the best iOS programming conference in the world by the Swift community. He has successfully completed M.S in Software Systems from BITS, Pilani and Master's in Creative Writing from the LASALLE College of the Arts, Singapore. He is currently working on his debut non-fiction book. His contribution has been featured in TechInAsia and Channel8 news.



## UTKALIKA MOHANTY

Vice-President, Genpact  
B.Tech. (CSE) 2006-2010

Utkalika is currently appointed as the Vice- President at Genpact, a leading Hitech business. She holds an MBA from IIM Bangalore and has rich industrial exposure with 10+ years of experience in diverse sectors including IT & Healthcare Insurance (Infosys), Retail (MH. Alshaya & Co.), Healthcare (CK Birla Hospitals), Manufacturing (HIL & Orient Cement – CK Birla Group) & IT Services (Genpact). She is enthusiastic about introducing innovative products, initiatives, and ideas to consumers and working on analytical and creative projects. She fondly describes herself as “a girl with artistic taste and scientific temper”. Her artistic taste revolves around dance, music, fashion and fine art.



## RAKESH JENA

Principal Database Security Engineer at Oracle  
B. Tech. (CSE) 2004-2008

Rakesh is currently working as Principal Database Security Engineer for Oracle Database at Oracle America. In the current position, he works with customers of Oracle to enable them to adopt best security practices and products. He started his career in TCS as an Engineering Trainee in the field of DBA and was later promoted to Senior DBA and sent to onsite location to handle critical issues and deliverables for clients. Prior to his current job, he worked as a Lead Administrator for Cognizant Technology Solutions, US.

Alumni Desk

Visit our Alumni Portal at <https://alumni.silicon.ac.in/> & register yourself

E-mail: [siliconalumni@silicon.ac.in](mailto:siliconalumni@silicon.ac.in) | Contact: +91 9937289499 | Extn: 351/352/353/354/356

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[pcell@silicon.ac.in](mailto:pcell@silicon.ac.in)

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**Silicon Institute of Technology** (Autonomous)

Silicon Hills, Patia, Bhubaneswar, Odisha, India 751024

Ph: +91 9937289499 Extn: 351 / 352 / 353 / 354 / 356

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