

SiliconTech

SILICON INSTITUTE OF TECHNOLOGY, BHUBANESWAR

A QUARTERLY NEWSLETTER

Volume 3 Issue 2 October - December 2021

EDITORIAL

We had a multitude of events over the past quarter, with significant in- person participation. SiliconTech hosted OCIT-2021, an international conference for high-quality research in Information Technology. The event included sessions by eminent academicians and industrialists and over 300 participants from various countries contributed to the success of the conference. NES-2021, a three-day workshop on Nanotechnology & Embedded Systems was conducted in collaboration with Sevy Multimedia in hybrid mode. The workshop covered expert talks by eminent speakers to create awareness on the recent advances in solid state devices, VLSI circuits and embedded systems. An STTP on industrial automation and control for Industry (IACI-2021) emphasizing the transfer of special skills by industry professionals to prospective engineers was also held in the online mode.



Sangam 2021, a music and dance festival to celebrate cultural diversity in our country, under the Ek Bharat Shrestha Bharat program of MHRD, was held showcasing talents in the performing arts. And then there was Kala Kumbh, a week-long event under the banner of Azadi Ka Amrit Mahotsav, a Government of India venture to commemorate 75 years of India's independence. The National Gallery of Modern Art (NGMA), Ministry of Culture, Govt., of India, in collaboration with SiliconTech hosted this event.

Awards came with unerring regularity. The Ministry of Education (MoE) Innovation Cell, Government of India, recognized SiliconTech's Institution Innovation Council (IIC) as one of best performing IICs, for its performance in the year 2020-21. SiliconTech received the BPUT start-up award, based on student activities and overall performance. Faculty member Dr. Biranchi Narayan Rath, received a grant of ₹15 lakhs under the Teachers Associateship for Research Excellence (TARE) scheme. Also, Dr. Pradyumna Tripathy, Associate Professor, CSE, received the ISTE Best Engineering College Teacher in Odisha award for his continuous efforts and innovation in teaching, research, and involvement in student-related activities. Dr. Bhagyalaxmi Jena, Senior Assistant Professor, ECE, received the Best Researcher award by the International multi-disciplinary research foundation.

The 13th Alumni Meet 2021 was conducted offline at the Institute and about 250 alumni attended. The event included captivating performances, fun activities and a sumptuous lunch. Alumni highlights include Akash Das from the B. Tech. CSE batch of 2020, who received a whopping 40 LPA package.

Prof. (Dr.) Jaideep Talukdar
PRINCIPAL

INSTITUTE HIGHLIGHTS



SiliconTech ranked as Performer in ARIIA Rankings 2021

Silicon Institute of Technology, Bhubaneswar (SiliconTech), has been placed under 'Band-Performer' in the category of 'Private or Self-Financed College/ Institutes (Technical)' in Atal Ranking for Institutions on Innovation Achievements (ARIIA) 2021 announced on 29 December by Ministry of Education's Innovation Cell, Government of India. More details at <https://bit.ly/3FPNQ4y>



SiliconTech received Start-up Cell award from BPUT, Odisha

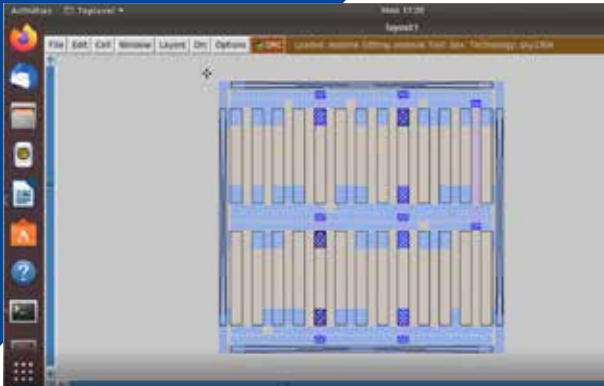
SiliconTech received the Start-up Cell Award from Biju Patnaik University of Technology (BPUT), Odisha on 21 November 2021, on the occasion of its 20th University Foundation Day. This award was given for the various start-up cell activities based on the participation of the students and faculty mentors of Start-up Cell/Entrepreneurship Development (ED) Cell in the institute, during the 2020-21 session. More details at <https://bit.ly/35blxQw>



SiliconTech's IIC awarded the best performing IIC for the 3rd consecutive year, by MoE

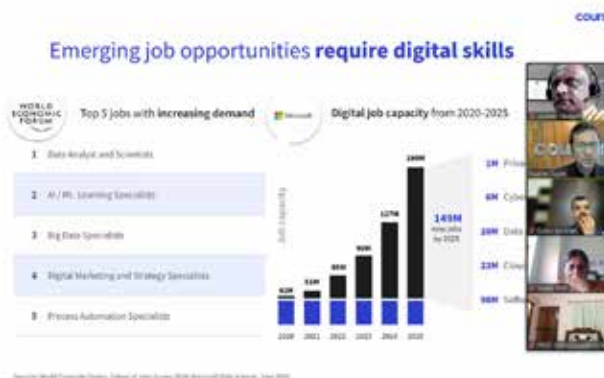
The Ministry of Education (MoE) Innovation Cell, Government of India, recognized SiliconTech's Institution Innovation Council (IIC) as one of best performing IICs on 1 December 2021, for its performance in the year 2020-21. The rating process started in the year 2018-19. In the year 2018-19, SiliconTech was among the best 25 IICs in the whole country. It also received the highest star rating in 2019-20. More details at <https://bit.ly/3fKy3to>

NEWS & EVENTS



VSDOpen 2021 Conference Tutorial on Bandgap Reference (BGR) circuit

Prof. (Dr.) Saroj Rout and Prof. Santunu Sarangi from our Advanced VLSI Lab delivered a very informative course on Bandgap Reference (BGR) circuit in VSDOpen 2021 Conference from 19 – 23 October 2021. The course mostly focused on intuitively understanding the concepts involved in designing a BGR circuit with real-world specifications and complete hands-on practice using the open-source EDA tools. More details at <https://bit.ly/3KGvela>



Coursera | Meet & Greet with academia leaders

Prof. (Dr.) Jaideep Talukdar, our Principal, had a virtual interaction with academia leaders from across the country on 18 Nov 2021 to discuss how Coursera could be more effective in the academic curriculum and prepare students better for the workplace. Emerging opportunities and digital skills were also discussed.



Advanced VLSI Lab selected as Sevy-ST Launch Lab for Fresher Training

Our Advanced VLSI Lab has been selected by Sevy Multimedia Technologies Pvt. Ltd. and STMicroelectronics as their fresher training launch lab, where their newly hired employees will gain expertise in different VLSI domains like CMOS VLSI Design, PDK (Process Design Kit) design and development, standard cell library development, standard cell layout and verification, analog circuit and layout design, before joining the company. The first batch of 14 fresh employees from Sevy Multimedia started their training on 8 November 2021. Prof. (Dr.) Saroj Rout and Prof. Santunu Sarangi are executing this training. More details at <https://bit.ly/32ilxgq>



Induction of 2021 Admission Batch

The Orientation-cum-Induction program, for the 4th batch under Autonomy (2021-2025) was conducted at the institute premises from 1 – 8 December 2021. Among the eminent invited speakers were Prof. Sunil Sarangi (Ex Director NIT, Rourkela), Dr. Md. Imran Ali (Anti-tobacco Activist), Mr. Abhijit Sen (Ex AVP, Infosys and Founder of Syllogistek Systems) and Dr. Shraddha Padhi (Professor OB & HR, KSOM). A few of our alumni also joined the session to motivate our students with their success stories.



Hello World by ISTE Silicon Students' Chapter

The ISTE Silicon Students' Chapter conducted 'Hello World' for the students of the 3rd semester on 20 Nov 2021, where seniors discussed important topics like placement roadmap, interview tips and basics of programming. A short quiz session was conducted on the basics of programming. The top 5 performers were Kumar Mrityunjay–ECE (2nd year), Atul Kumar – CSE (2nd year), Anurag Mishra – CEN (2nd year), Sujeet Kumar Rath– CST (2nd year) and Ankita Verma– CSE (2nd year)



NPTEL workshop

Silicon Institute of Technology, Bhubaneswar has been added as a local chapter of NPTEL (National Program on Technology Enhanced Learning). A NPTEL Awareness e-workshop was held in association with Sree Narayana College for Women and St. Thomas Arts & Science College from Kerala on 9 December 2021.



Plantation Drive by Silicon Green Club (SGC)

Silicon Green Club (SGC) members organized a plantation drive on campus to observe National Pollution Prevention Day on 2 December, 2021. The SGC members across all years participated and planted saplings inside the campus.



Kala Kumbh, an artists' workshop

SiliconTech celebrated 'Kala Kumbh', an artists' workshop from 11 – 16 December 2021, under the banner of 'Azadi Ka Amrit Mahotsav', in partnership with NGMA (National Gallery of Modern Art), Ministry of Culture, Government of India. A team of 70 professional artists from different parts of Odisha painted the canvas, which features images of various freedom fighters from Odisha. More details at <https://bit.ly/3FPnccj>



Sangam 2021, an EBSB event (MHRD initiative)

SiliconTech organized a one-day music fest on 11 Dec 2021 to celebrate the cultural diversity of our nation under the 'Ek Bharat Shrestha Bharat (EBSB)' program, an MHRD initiative of Government of India. More details at <https://bit.ly/3F10sLa>



NES 2021

The Department of Electronics & Communication Engineering (ECE) organized a 3- day online workshop on Nanotechnology and Embedded Systems (NES-2021) from 16 to 18 December 2021, in collaboration with Sevyta Multimedia Technologies, Greater Noida. Key invited speakers were Mr. Puneet Mittal from VLSI Experts Pvt. Ltd., Mr. Alok Kumar Mishra and Mr. Praveena Gowda from Micron, Mr. Jean-Francois from Sevyta Multimedia, Dr. Siddhartha Dhar, Ms. Namerita Khanna and Mr. Atul Bhargava from ST Micron. More details at <https://bit.ly/3qNQKTg>



19th OCIT 2021

The department of Computer Science and Engineering of SiliconTech, in partnership with Odisha Information Technology Society (OITS), organized the 19th OITS International Conference on Information Technology (OCIT 2021) at Silicon Institute of Technology, Bhubaneswar from 16 – 18 December 2021. Professor Saraju P. Mohanty from University of North Texas, USA, Professor Baek-Young Choi from University of Missouri-Kansas City (UMKC), USA, Professor Srinivas Katkoori from University of South Florida (USF), USA, Dr. R. Nagaraja, Founder and Director of PRDC Bengaluru, India, Professor Mukesh Mohania from IIT Delhi, India, and Mr. Satendra Singh, Chief Technology Officer of PropellD, Bengaluru were the eminent keynote speakers. More details at <https://bit.ly/3fGv7Ou>



IACI 2021

The Department of Electronics and Instrumentation Engineering (E&IE) organized a five day Short-Term Training Program (STTP) on Industry Automation and Control for Industry 4.0 (IACI-2021) from 20-24 December 2021 in hybrid mode. About 260 participants from various institutions all over India joined the STTP and gained knowledge on Industry 4.0. More details at <https://bit.ly/33y3vJ0>

EMPLOYEES IN NEWS



Dr. Pradyumna K. Tripathy

Dr. Bhagyalaxmi Jena

Dr. Biranchi Narayan Rath

- **Dr. Pradyumna Kumar Tripathy**, Associate Professor, CSE, has received 'ISTE Rajlaxmi Memorial Best Engineering College Teacher Award for Odisha State for the Year 2020' from ISTE on 5 October 2021, for his continuous effort and innovation in teaching, research, and involvement in student-related activities.
- **Dr. Bhagyalaxmi Jena**, Senior Assistant Professor, ECE, has received the 'National Best Researcher Award 2021' in recognition of her consistent performance in 'Signal Processing' conferred by the International Multidisciplinary Research Foundation on 11 November 2021.
- **Dr. Biranchi Narayan Rath**, Senior Assistant Professor, EIE, has received a grant of ₹15 lakhs under the TARE – SERB scheme, Government of India to conduct research in the area of active noise control.

RESEARCH & PUBLICATIONS

Scopus/SCI Indexed journals: **5**

Conference proceedings: **4**

Book Chapters: **5**

Patents Granted: **3**

SiliconTech receives grant to carry out research work under TARE – SERB scheme, Government of India

Dr. Biranchi Narayan Rath, Senior Assistant Professor, EIE has received a grant of ₹15 lakhs under the Teachers Associateship for Research Excellence (TARE), Science and Engineering Research Board (SERB), Government of India to carry out research in the area of active noise control. The project is titled as 'Discrete-Point Control Based Adaptive Active Noise Regulation System Implementation Using Deep-Learning Regression Techniques'. More details at <https://bit.ly/3Ay2Jl5>

Optical Sensor Research team fabricates metal packaged FBG sensor probe

The Optical Sensor research group at SiliconTech successfully fabricated the first version of the metal packaged FBG (Fiber Bragg Gratings) temperature sensor probe by embedding an FBG sensor inside a nano-composite PolydimethylSiloxane (PDMS) polymer surrounded by a stainless-steel metal probe. The nano material used in this work is Graphene having bulk density of 0.30g/cc, average diameter of 10-15 μm , average thickness (z-direction) of 10-15 nm and purity >98%. The temperature probe is designed with a temperature sensitivity of 13 pm/°C and base wavelength of 1535nm. The real-time signal acquisition from the FBG temperature sensor probe is performed using a state-of-the-art Ibsen I-MON high-speed FBG Interrogator interfaced with the National Instruments LabVIEW application. More details at <https://bit.ly/3fM27Vn>

ENTREPRENEURSHIP DEVELOPMENT CELL



My Story - Motivational Session by a Successful Innovator

Dr. Pankaj Parashar, Founder and CEO of Cutting Edge Medical Devices Pvt. Ltd. spoke to the students about his journey as a doctor, an innovator, and an entrepreneur on 20 Dec 2021. Dr. Parashar has also developed many innovative and affordable medical devices for mass healthcare. More details at <https://bit.ly/3rZ8eLJ>



Celebration of National Education Day

A webinar on 'New Education Policy and Innovation' was conducted by Prof. S.P. Adhikary, Former Vice Chancellor of F.M. University, Balasore, Odisha on 11 Nov 2021 to mark the National Education Day.



My Story - Motivational session by Successful Entrepreneur

The CEO and Founder of Bookingjini, Sibashis Mishra, spoke about his journey as an entrepreneur in the orientation program on 'Entrepreneurship' for newly admitted 1st year students on 18 Dec 2021. More details at <https://bit.ly/3KRtRGt>



Celebration of National Pollution Prevention Day

Dr Jayakrushna Panigrahi, Secretary, Orissa Environmental Society (OES), delivered a guest lecture on the theme of 'Raising awareness for pollution prevention' on 2 Dec 2021, on the occasion of National Pollution Prevention Day.

INDUSTRY INTERFACE CELL

PLACEMENT HIGHLIGHTS

- Over 90% of the eligible students from the graduating batch of 2022 have been placed in 35 reputed companies that have visited the campus so far, mostly virtually.
- We have received 1013 job offers, by the end of this quarter for the batch of 527 students graduating in 2022.
- Almost every placed student has received more than one offer in the salary range of 3.6 LPA – 13 LPA.
- The top IT/ Product development/ VLSI/ FinTech/ Insurance/ Start-up companies that have recruited our students this quarter include Accenture, Acesocloud, Capillary, CoreEL Technologies, Digit General Insurance, Hexaware Technologies, Infosys, Interland Technology Services, Latentview Analytics, Nirmalya Labs, OpenFive, Price Waterhouse Coopers (PwC), Propelled, QuEST Global, RapidSoft Technologies, Silicon Tech Lab, Tech Mahindra and Wipro Technologies.

PRACTICE SCHOOL HIGHLIGHTS

Practice School (PS) is one of the flagship programs of the Institute which is integrated into our autonomous curriculum. IICELL has already initiated the PS joining for the 2022 graduating batch students in their 8th semester.

- More than 80 students have confirmed to join their respective organizations as interns under the PS program by the end of this quarter.
- Companies that have recruited students for the PS program during their 8th semester so far are Cozentus, Incture, Valuelab, Infosys, Cognizant, Capgemini, Sevia IT, Opensilicon, Capillary, Mentography, Micron, Propelled, Proxsoft, and STL.
- The students selected for the PS internship will receive a stipend ranging from Rs.10000 - Rs.40000 per month.

STUDENT ACHIEVEMENTS



Sanjog Samuel Samantaray (CSE, 2022), has been recognized by Dare2Compete (D2C) for his commendable performance as a D2C Chief Igniter for Batch 2020-21. Last year, Sanjog was one of the six students selected from Odisha as a D2C Igniter, out of 2700 + registrations across the country.



Chandan Singh (ECE, 2022), has been selected by Mentor Graphics, a renowned US-based Electronic Design Automation (EDA) company, for a six month internship in the eighth semester with a monthly stipend of 40K per month. Chandan was also selected by STMicroelectronics, a French-Italian multinational electronics and semiconductor company.



Abhishek Ranjan (ECE, 2022), has been placed in OpenFive (erstwhile Open-Silicon), a SiFive company for semiconductor design, with an internship-cum-PPO offer of 8LPA. During the six months internship, Abhishek's stipend will be INR 25,000 per month.



Achyutananda Nayak (CSE, 2022), have been selected by Propelld, a Bangalore based FinTech start-up revolutionizing Education Financing of the students, for an internship-cum-PPO offer with a monthly stipend of INR 40,000 per month and a salary of 9-13LPA.



Shaswat Ranjan Nath (CSE, 2022) have been selected by Capillary Technologies India Pvt. Ltd., for six month internship in the 8th semester with a monthly stipend of 35K per month.



Ananya Rout (CSE, 2022) have been selected by Capillary Technologies India Pvt. Ltd., for six month internship in the 8th semester with a monthly stipend of 35K per month.



Subham Rath (ECE, 2022), has received an internship-cum-PPO offer from Micron Technologies, a world leader in innovative semiconductor memory solutions in the VLSI domain with a monthly stipend of INR 30,000 per month and a salary of 12-14 LPA. Subham has also received offer from OpenFive (erstwhile Open-Silicon), a SiFive company.



Swaraj Baral (CSE, 2022), have been selected by Propelld, a Bangalore based FinTech start-up revolutionizing Education Financing of the students, for an internship-cum-PPO offer with a monthly stipend of INR 40,000 per month and a salary of 9-13LPA.



Rishika Agarwal (CSE, 2022) and have been selected by Propelld, a Bangalore based FinTech start-up revolutionizing Education Financing of the students, for an internship-cum-PPO offer with a monthly stipend of INR 40,000 per month and a salary of 9-13LPA.

ALUMNI AFFAIRS



ALUMNI BUZZ

1. Akash Das (B.Tech. CSE, 2020) has been placed at Wiley with a package of 40 LPA.
2. Silicon Alumni Association hosted a series of talks where our alumni shared their experiences with their juniors.
 - Satyajit Panda (B.Tech. ECE, 2014), VMware Software India Pvt. Ltd. presented a webinar on 'Make Yourself Industry Ready through GATE' on 2 Oct 2021.
 - Srikant Singh (B.Tech. AEI, 2015), IOCL, presented a webinar on 'Want to ace GATE for PSUs?' on 9 Oct 2021.
 - Prachi Mrudula (B.Tech. ECE, 2019), ST Microelectronics, discussed about the different aspects of VLSI domain as an engineer, in her virtual talk titled 'Step into the shoes of a VLSI engineer' on 6 Nov 2021.
 - Siddhartha Shankar Pany (B.Tech. AEI, 2008), BARC, Mumbai presented a seminar on 'An overview of Engineers' arsenal for R&D industry' on 2 Dec 2021.
3. IEEE Students Chapter hosted a webinar by Nikita S. Kar (B.Tech., CSE, 2018), Amazon on 'Data Engineering & Cracking Amazon' on 2 Oct 2021.
4. The 13th Alumni Meet 2021 was conducted offline at the Institute on 18 December 2021. A total of about 250 alumni attended the event. The event was coordinated by the Silicon Alumni Association team comprising of Dr. Biranchi Narayan Rath, Dr. Suchismita Rout and Dr. Debasish Nayak. Student council members and student volunteers participated enthusiastically and helped organize the event. More details at <https://bit.ly/33PhqKI>



Siddhartha S. Pany



Akash Das



Satyajit Panda



Prachi Mrudula



Nikita S. Kar



Srikant Singh

ALUMNI IN FOCUS



GYANARANJAN KHUNTIA

Senior Engineering Manager at Mentor Graphics
B. Tech. (ETC) 2002-2006

Prior to Mentor Graphics, Gyana was working as a Component Design Engineer in Intel India Pvt. Ltd. His areas of expertise are verification IP development, ASIC SOC verification, behavioral modeling, test bench, Test plan development. His work experience includes development of Verification environment, BFM (Bus Functional Model), Coverage Closure, Checkers Developments. His future goal is to explore the latest technologies in farming through his own start up.



IMTIAZ ZAFAR

Senior Consultant, Deloitte, London
B. Tech. (AEI) 2007-2011

Imtiaz has more than 8 years of experience in Project Management, Program Management, Stakeholder Management and Solution Designing. Imtiaz began his career with Infosys in 2011 as a Systems Engineer supporting the project management activities for data management projects. He has delivered high quality products on multiple projects during his tenure as a Project Manager with PwC and Gartner.



BISWAJIT BEHERA

Assistant Manager, IOCL
B. Tech. (AEI) 2008-2012

Biswajit's responsibilities include identifying and executing various electrical and instrumentation projects for improving processes and safety aspects in the petroleum industry. In addition, he is responsible for the procurement and maintenance of electrical and instrumentation equipment, PLCs, SCADA servers, as well as other software servers running on modern IT platforms.



SURAJ SHARMA

Senior Manager (Skill Development), IOCL
B. Tech. (EIE) 2003-2007

Suraj joined SiliconTech as a Lecturer in AE&I department after a small stint in TVS Motor Company. Thereafter, he joined Indian Oil Corporation Limited (IOCL) as a Graduate Engineer In 2008. He was one of the few selected for a company sponsored executive MBA program at IIM Lucknow. He joined the HR department at IOCL after completing his MBA. His hobbies include reading autobiographies of leaders, writing poetries and taking early morning walks.

Alumni Desk

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

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